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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15909	46277	A	16000	3	378	GASPD LGGRVLGAGASAESPR GRPFGPSPLGGPPVPGCQCAAP SLRDPWGLWAPVLQMTGSYEF KLNQPPEDGISSVKLSPHTLPSP GLSPSWET\SVRLYDV\PGNFM AVKYQ\HTGARPGNGPF
15910	46278	B	16001	83	2851	
15911	46279	A	16002	296	1186	AENHPGP\LVVEGKMTAPERM KHESNYLRGTIAE\NLNDGLTG GFKGANFLLIRFHGMYYQDDR DIRAERA EQKLEPRHALLRCR LPGGVITTKQWQAIDKFAGENT IYGSIRLTNRQTFQFHGILKKNV KPVHQM LHSVGLDALATAND MNRNVLC TSNPYESQLHAEAY EWAKKISKQLLPRTRAYAEIWL DQEKVATTDEEPILGQTYLPRK FKTTVVIPPQNDIDLHANDMNF VAIAENGKLVGFNLLVGGGLSI EHGNKKTYARTASEFGYLPLEH TLAVAEAVVTTQRDWG
15912	46280	A	16003	225	386	GLCIPVVRSPCQLWGQKGPCM LRDEGRVFT*LSTKKNCPGNMR RKYETVDCRR
15913	46281	A	16004	386	739	PLLIHWR FATIEEADHRLAAG ARTFQ/PLCGPPQAQAVWR*AQ *FQFADRFPASRWRASSGRRF SRSGRARRCQSVAKRRRQIHEC GRSTPDCRCRMRQQYRCCRDA RRYQNRAPRR
15914	46282	B	16005	10	1468	
15915	46283	A	16006	3	1267	GRSRR**PPSAVPHD\PAVQRER DTQSLSVII*MQIYNFSNTTHLT NHNTFLT FHKTF TAETFQHIGP QPTTDTPYHTAEAYCCQLVKLI RRQALRRCWQGAAILKCNSKP TNHCTS

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15916	46284	A	16007	1	1673	MTPICTVFRALSRLPDLWHRSI GTLTEALPQTDKRQEIAVALT SYSGLYGLGYGSKEIQLTYSGT ESGIWFPYPSPNATHKCCGRHR FACPIAPHFLVIEPQSALGSCPS VEVDPGGCVFGAIRLLVLRDAP SFSRLLNTLASGESLQGGPGFV GVSKVYAFLVVRNPTGTPMFT GTFEIPKWPTFPIPPVFGRLGSF VLQLQGPRSPGQCEYDRELVS SRSVSSCLLVGLTHLLSYKDA GVDIDAGNALVGRIKGVVKKT RRPEVMGGLGGFGALCALPQK YREPVLVSGTDGVGTRRRAL VLKRFFIGIDLAMCGNDLVV QGAELFFLDYYATGKLDVDT ASAMISGIAEEKSEILDGSKVSD GDVLIALGSSGLHSNGYSLVRQ ILEVHRAAADVLSDADAVSW RAPYQTSSGLRKKINQGAVSFV DLHLSEVAQMVNYGFFGDIDV AVIEASALAPDGRVWLTSGIRN APTWLLRAKKVIIELNHYHDPR VAELADIVIPGAASRRNNGSIFH AMDRLGNPHVQIDPEKIVAVV
15917	46285	A	16008	425	595	
15918	46286	A	16009	315	721	QCFRALGGHRRADRGENIQV WIEPGC/INDLLKWLNALDEKY RSRLVWARSSKNSLCASEANW LEMNNRLSKGDLPCIRPILIMLI R*TCSYGFTALR*TQNAAGGGD SLAGGIGIFTLVFFTLPAYAIRW LPR
15919	46287	B	16010	652	858	
15920	46288	A	16011	238	2526	
15921	46289	A	16012	21	522	IPCCRSTRKTSGAGLSITSEQRR AAVSRISVTSSLLASAG/VRYRQ HHARDVRERPVDKL/PR**TPC SARLSLYGPSR*WW/MARVLIF VTLPVRSRIVTVSPMRIGFSNRH RPEIKLAKISCKPKPRPTPSAAT SHCNFDHSIPIIEKPTSPPIISRY LVMVMA
15922	46290	A	16013	2	527	

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15923	46291	A	16014	1	1734	MVNGCDSTNASSYANVNGCDS TNASSYANGERCDSTNASSYA NGQVRSTNASSYANGERVRL DNASSYAIGERVRLDERTSYAN GERVRLDERILLANGDRVRHHE RILERKATFNNSGTTCCRAVYS RVSAMTAPDKAFTPHRQRCRLP DATLARLIRPQIPAPSVGRIRRL RRIGNSANCLMRRLRVLSGHKF PHHPSPMPNVSANGYRSFPFMA YMTFFFGYLTAWSYCLCGCRW GSLKSPPLALCPVLVPGDGA VDTRIDAVALVALANLAAVRLYA KSSSAAGIINFVVLTAALLAVT AACTVATYALRTGKNRQYRA MQSFRRSSIDNRVDTFKGTGA LGISVTVIAVTCKSRLVYPIPVY TGLSLPQRPAVVKVNEGSMET KDLIVI/GAGINGAGIAADAAGR G/LSVLMLEAQDLACATSS/ASS KLIHGGLRYLEHYESACEALAE REVLLK/MAPHIAFPMRFRPLP RP/HLRPAWMIRIAENIS/DFVEP KLCLPRMGTRSVLPGVCRNY ESTITSVISVSPCERDMANYVPR HSAGYRRRFYPMTQPIKDAVEP VDQDWKAGKEMAASRS
15924	46292	A	16015	1	5895	
15925	46293	A	16016	170	371	
15926	46294	A	16017	216	477	
15927	46295	A	16018	2	263	
15928	46296	A	16019	1	2862	

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15929	46297	A	16020	1	1567	MKLNKAGFNVPEYSYLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCS TMMDEHITTEENQGSNLSPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDVAHDSRSIQLAMLRD DEILTHPVFNRYHSETEMMRY MHSLERKDLALNQAMIPLGSC TKLNAAAEMIPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPNSGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIAKIEKMGVP\IKCTTEV G\NTLTLEQVKAENRAVLVTVG LSSGSGPLPLFEHSDVEIAVDLQ RARQAQGDISI PQSALIIGGGDV AMDVASTLKVLCQAVTCVAR EELDEFPASEKEFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRNSAGNHP
15930	46298	A	16021	62	329	
15931	46299	B	16022	289	334	
15932	46300	A	16023	1	2991	
15933	46301	A	16024	418	3156	
15934	46302	A	16025	1	2169	

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15935	46303	A	16026	800	2406	SSRRMFPPAIRLLLLICLPARRWK SAL/GEEQLQNLQHISQEMGISP SLFSTQPLWQIAMVLQATQAQ KLGLRAEYGIDYQLLQAAKQQ HKPVIELEGAENQIAMLLQLPD KGLALLDDTLTHWHTNARLLQ QMMSWWLECEGGERERIFPVS KRMGKKLDAVFGDNHTASLTE TEEYRKSQVHFCIDKRERSSG NYQSIQGCRSAAFFIPSNSTRK RGESMYRMDKLTTGAAYGAS AGSILNGMLNAYSPEQWNAIG VLTAAAGAEMNPTLRNKLVG AIVGGSGAITIAAVMLGNADGL EGRRYYAYQDVVGWVTVCDG HTGTDIRRGHRYTDKECDNLL KADLRKAIYISGYSGTNGIRDS LLFSSLWLIPVFLFPKRIKIIAAVI GVAFSRFIASHLAVAFESDPEAE IRQLNSRRVELERALSNHENDN QQQRIQFEQAKEGV TALNRILP RLNLLADDSLADRVDEIRERLD EAQEAARFVQQFGNQLAKLEPI VSVLQSDPEQFEQLKEDYAYSQ QMQRDARQPGVCP
15936	46304	A	16027	2336	3105	HGNAIALIASQTWRDHPVDLLL SLLVQSLT/GRLRELNQSLQKEL ARNQH LAERLLETEESVRRDV ARELHDDIGQTITAIRTQAGIVQ RLAADNASVKQSGQLIEQLSLG VYDAVRRLGRLRPRQLDDLT LEQAIRSLMREMELEGRGIVSH LEWRIDESALSENQRVTLFRVC QEGLNNIVKHADASAVTLQGW QQDERLMLVIEDDGSGLPPGSG QQGFGLTGMRERV TALCGAFH ISCLHGTRVSVSLAQRHV
15937	46305	C	16028	1	1374	

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15938	46306	A	16029	1298	2896	GAFTCCATAGGCMNIRRKNNRL WIACAVLAGLALTIGLVLYALR SNIDLFYTPGEILYGKRETQQM PEVGQRLRVGGMVMPGSVQR DPNSLKVTFTIYDAEGSVDSY EGILPDLFREGQGQVVVQGELEK GNHILAKEVLAKHDENYTPPEV EKAMEANHRRP RPSIMMPEIG NGLLCLALGIALLLSVYPLWGV ARGDARMMASSRLFAWLLFMS VAGAFLLVNAFVVNDFTVTY VASNSNTQLPVWYRVAATWG AHEGSLLLWVLLMSGWTFAVA IFSQRIPLDIVARVLAIMGMSV GFLLFILFTSNPFSRTLHLAYPN RCQPINWRGRHLVWYLLLFVIS LWLQLGLPDELSRFTPFCLALPI IALAWHYGWQGALIALTMNAI ALIASQWTRDHPVDLLSLLVQ SLTGALLGAGIQRLRELNQSLQ KELARNQHLEAERVLETEQSVR RDVARELHYDIGQTITAIRTHA GIVQRLAADNASVKQSGQLIEQ LSLGVYDAVRPLLGLRPAQLD DLTLEQAIPLT
15939	46307	A	16030	15	277	KIGQKAPLGEARGGERTSRTA KNFGYEEMLSELEA/HRRG/WL KRV*PRMKLPPEALVETFIAQLF DAPSQIMPLTSPILLIAIEMGS
15940	46308	A	16031	1	2916	
15941	46309	A	16032	1	2862	
15942	46310	A	16033	1	3099	

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15943	46311	A	16034	1	1567	MKLNKAGFNVPEYSYLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCS TMMDEHITTEENQGSNLSGPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDVADHSRISQLAMLRD DEILTHPVFNRYHSETEMMRY MHSLERKDLALNQAMIPLGSC TKLNAAAEMIPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPNNGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIAIRIEKMGVPMKCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIADFLQ RARQAQGDISIQQSALIIGGDV AMDVASTLKVLCQAVTCVAR EELDEFPASEKEFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRNKSAGNHP
15944	46312	A	16035	367	849	NNFCSTTSHHGQHHHTDHRCC EQNVCHRDICQTLFRITKDDSD NFICLIEAQSACHKDVNYNHDS QKNAADHHDKQQ*SPANFMPD TINDGFAERCINHQNGRLVSF RNPFFIARHPVTNPRPGKMPQH KRQQQLQHNFTDLLKAAPCTV NIHHQTNQW
15945	46313	A	16036	1	1066	MHQRPRTRNAVEQHRFSRQLY YALHAFEITIPPLMRRGSIPL VNNKLRSLKRFSTRKIDDDA LARLVSCAWPGNDFELYSVIEN LALSSDNGRIRVSDLPEHLFTEQ ATDDVSATRLSTLSFAEVEKE AIIAQAQVTGAFWWLGDVKL TIPLTLGMVAAAALTDLDDRLAG RLRNLIITLFCFFIASASVELLFP WPWLFAIGLTLSTSGFILLGGLG QRYATI\AFGALLNAIYTMGLT SLYEHWYQQPMYLLAGAVWY NVLTLLIGHLLFPVRPLQDNLAR CYEQLARYLELKSRMFDPDIED QSQAPLYDLALANGLLMATLN QTKLSLLTRLRGDRGQRGTRRT GIL
15946	46314	A	16037	1	951	
15947	46315	A	16038	576	669	

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15948	46316	A	16039	1	1047	
15949	46317	A	16040	2	425	
15950	46318	A	16041	148	1052	RARRGVSVKAKKQETAATMK DVALKAKVSTATVSRALMNPD KVSQATRNRVEKAAREVGYP QPMGRNVKRNESRTILVIVPDIC DPFFSEIIRGIEVTAANHGYLVLI GDCALQIQKEKPFIDL'ITKQIDG MLLLGSRLPFDASIEEQPNLPP MVMANEFAPELELPTVHIDNLT AAFDAVNYLYEQGHKRIGCIA GPEEMTLCHYRLQGYVQALRR CGIMFCRFTAEGVQEIDYKDIA TLKNYITESGGVTELIHFFIAEY SDNQANAGGGVEDEDIEVLES LRLNENHAIKERCERS
15951	46319	A	16042	3	741	
15952	46320	A	16043	237	1542	FHRLWTGRFLPSPPSRRGTDNA AGRTKMPPSPVIF/WFALAQFV GVKHSRSIPFAAVRSHKARIRSI SRSDVATSILPQLS*RMPF*SQK ALVARFPARQNCAFRLLPGV*/L DPGMDHAAVVARLVTRGGIV WFGDRFYRSVDDIHFGAWGDL AKECFDIVIPQTNARTYPHAN AEIGVRTMKQINAAIGRQTNRM MAHWVIRSSRHYRRQLNSLCFI TGADVCRWFPQHIVPGRDSVA HVVVQHVITYRLLRGLLHFAG DGGVNAITVFIGTFAITVIHLLA HHFAQVRRRESNLRRVIVSVNR LSACLIELLGDIPFIQHPRQHD VTPRDGTIHRVERVEGGRRFRQ PGYHRHFVQRQLVDRFSEIDLC RSTDTIGAVTKVNLVQIKLEDL VFRQQLFNANREEDFLNLTHQR AFWTEEEVSRQLLGNGTCPL
15953	46321	A	16044	1	1059	
15954	46322	A	16045	104	349	RSAASPWKTRKALVCCSAVVIS PALKISMIVTISVQAHG*LRKGS GVKAALSWWKFQPTMKPTITS SLTGRRISCRSRVKR

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15955	46323	A	16046	1056	2373	GPRLVQRSDHRPHDANYRQYL AGLSVHDDPLHGLAE\TIPDDL YEASAMDGAGPFQNFKITLPL LIKPLTPLMIASFAFNFNFLI QLLTNGGPDLRGTTTTAGYTDL LVNYTYRIAFEGGGGQDFGLA AAIATLIFLLRIPRRTTALQGMR SNLNMESSRWARANRRLKAIN TSLTLITQSCETYLIQNTRPELI TDTFREFFDTPVETAQDVHKQL KRLRRVIAWTGERETPVTIYSW VAAATRYQLLKRGVISNTKINA TEEEILQGEPEVKVESAERHHA MVNFWRTTTLSCILGTLFWLWT GWTSGSGAMVMIAVVTSLAM RLPNPRMVAIDFIYGTLAALPY GGGRPVAVGVFYGGCYCTR DG LTRAPPPNAAPTAARYGPRTTP RTLRLKGITDVRCEKRHHQRQA RNAGYQTVFSDLDRLRHPALR

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15956	46324	A	16047	1	2581	MVLMGLAQNIWQFLILRALLG LLGGFVFNANALIAITQVPRNKS GWALGTLSTGGVSGALLGPMA GGLLADSYGLRPVFFITASVLIL CFFVTLFCIREKFQPVSKKEML HMREVVTSLKNPKLVLSLFVTT LIIQVATGSIAPILTYVRELAG NVSNVAFISGMIAVPGVAALL SAPRLGKLGDRIGPRKILITALIF SVLAVIPIRHFEMRSKESRPSAW VTPKGEWGKGSVELVEIPTNDE TNDNIVAYWTPDQLPEPGKEM NFKYTITFSRDEDKLHAPDNAW VQQTRRSTGDVKQSNLIRQPDG TIAFVVDFTGAEMKKLPEDTPV TAQTSIGDNGEIVESTVRYNPV TKGWRLVMRVKVKDAKKTTE MRAALRVWNKPGQNHQHLGN GFYGGQVYGGYLETMFGGAGAE VLYRPLDSNWAFGLDANYVKQ RDWRSKDKMMKFTDYSVKTG HLTAYWTPSFAQDVLVKASVG QYLAGDKGGTLEIAKRFD SGV VVGGYATITNVSKEEYGE GDF KGVYVSVPLDLFSSGPTRSR AIGWTPLTRDGGQQLGPGYTDLL VNYTYRIAFEGGGGQDFGLAA AIATLIFLLVAIMFLLMVVAIS LRQGNFATGSLIPEQISWDHWK LALGFSVEQADGRITPPFPVLL WLWNSVKVAGISAIGIVALSTT CAYAFARMRFP GKATLLKGML
15957	46325	A	16048	1	765	
15958	46326	A	16049	869	1012	MAISFMMSCFVT*VAANSAILL SMSWRA*SNSNGP*LANSILLS AAC

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15959	46327	A	16050	1	1854	MTLSCNSTDFEKT VTSVPALPD VVS DSDMSL NALS VTLADNVQ LSFR RDSYSGQPSVIY TTPQRPT AGSE DAPVWPEAFTEDVRHNR PPYPVIPRATRPACLARERMAM YMRPQIKTIGKAPAE EALS NPR MQGPQLSSASTIPVTPFHWLFG SHAAGHFSQHAHRTALTGHFS HLATTLKGLALEGNAIFTITRFT RPYGHKN TTPHSPLCSAPHSPIF NSRRKVYQGHPQWWAFIHS RPGGSSHSSILHCFALVCPGLVV QRDTPHPIR PALCPPIAIAFSLSL WLG NPSFPSGTQHLQGP KTFQQ QAS PSSKVC PKRLICTVIPQQRV ASHHHFHGHNRYYQLGLPVQH CTLQGVIRATHFIPRTARNQISH VSWGAGPAHSDSQGKDLE/H EPIKPLDNSEKASKV/SQALET TTAEKVQRQ/PVIAHLIRATER FNDR/LGNQFGGFVLAS/HPMLL QDIFDKILQNIS/DPTLAATLKNT INTAVHSHLVPAGADGIFLLLRP FDAVCAAWIATAEYKDYPGMP GKTHLKIRLMRRERLIGIRFYSG LLPGTKAPYSRTLAFKRVLHTA LSLHLGLGKTCTTG FELCSLTLL EYASNAFTYWP DWHINRIKNK N
15960	46328	A	16051	249	724	EKVKK TQRKEIENV TNITGV RQ IELWRRDDLQHPRLDEVAEEVP VALVYNGISHVVMMA SPKDLE YFALGFSLSEGD/IIESPRDIFGM DVGVPACNGL EERRRALDG/R TVAGCGVCGVEQ/LLNDIGKPV QPLAFTQT/FDLNKLDDALRHL NDFQPVGN
15961	46329	A	16052	71	408	RYLSTASQTNSIQIGAGLSRSRA FTTFGSKGILLSHTSVFIPDRCT SFSMMPTCSASLTSHCFQM TS LLSSHHP/FK KKKFGTKTGHCL CPSLNCLPCCFSQIMVIKQVIL
15962	46330	A	16053	668	905	CLHVLHHLTSHCFQMTPKPYST IHFLPRMTSLSSHHP/FK KKKF GTKTGHCLCPSLNCLPCCFSQI MVIKQVILEK KKK
15963	46331	A	16054	834	1057	ARLLFMDLLDERTLVAVERPLA VTSLLSSHHP/FK KKKFGTKTG HCLCPSLNCLPCCFSQIMVIKQV ILEK KKKTK
15964	46332	A	16055	1	1011	

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15965	46333	A	16056	191	631	NLLRGNKMATQSSPVITDMKVI PVAGHDSMLLNIGGAHNAYFT RNIVVLTDNAGHTGIGETPGGD VIYQTLVDA\IPMVLGQEVARL NKMVPQVHKGNQAADFDTFG KGAWTFELRVEAGAGLEARLL DLLGKALNVSGCELLGHGS
15966	46334	A	16057	2	335	GARQQQKFVLIAGGFP*QLL*T NAVIGREFRNVQECIGLHTAGF ANAVTKHFGKCAIALHNMAFR IEDNHRVEMVNGNQLSGLFF LRHFYAGIPYQRQVINPPLGAH
15967	46335	A	16058	736	910	RVSTPRATGTVPQRDYPLSVVA TG*PDSFHTYLFVRTY*K*V*VL AYLNTRQNDGDFP
15968	46336	B	16059	17	1699	
15969	46337	A	16060	3	440	
15970	46338	A	16061	1	564	
15971	46339	A	16062	1	1062	
15972	46340	A	16063	203	425	LNNWIISWLLHMMCLMKVAN CFRS*DRRELAVSAFFVLL*AM RLRRSSSGFLANLAHLQKMKL NSSTYVPPTKH
15973	46341	A	16064	402	713	RGVAISLGQSKSHGYIHFQVAQ REPEILG\DSIKAVRWCSLHGRL M***M*RDLKQWFSAPFA*VSL GTLCVIGQKAVGSLALMSWEP TPRPMGLLSTSRITYS
15974	46342	A	16065	944	1305	LPLWFISALRLAGIAVWCVLST GFEQIRMIKAFGLDRQSAL/FA ADAEDTGKKNMRVAR/IDARF DPTIGWPSSLGLLFSNRTPWVPF PFFFQVPQ\LHTFIRGILIWKTFP FWIFFPASSW
15975	46343	A	16066	1	756	

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15976	46344	A	16067	50	1191	CLTIAVFFPAPQCPMFSPCHT ARDGERAASMIQDYIFCFFSASF MKLKPERMHSHERAQTSMDLK DCRRHLPILMAGGMFAVLRK KHQQQTFIERPRISLTCMLPSW ATFLWLFTRIGQVLVTCLLSR ECFVNE/VQVIATVVSVPQVN PDIVAMIGASAAALSLGIPFNGPI GAARVGYINDQYVLNPTQDEL KESKLDLVVAGTEAAVLMVES EAQLLEDQMLGAVVFGHEQQ QVDSRGSPKGNRTCDNYIVIEG LIDYVNDMIENVSEEAFCVENR IMRHSDDHSCIVVRCLSLFALD LVLVVIAVSVVNPCLLEVTRLR AASIVSQPNLNISDTWGIGAILY GAYTCSCIADPHKMMSSGPMY SHSCVEK
15977	46345	A	16068	401	1518	LILFMST/ALLDAVVKKNRVRLI PYMLALYVLAFLDRSNIGLAKQ TYQIDTGLSNEAYALGAGIFFV VYAFLGV PANLLMRKLGARTW IGTTTLLWGFLSAAMAWADTE AKFLIVRTLLRAAEAGFFPGMI YLTSQWFPQRNRASIMGLFYM GAPLALTGSPLSGALLEMHGF MGHPGWFWMFVIEGLLAVGA GVFTFFWLDDTPEQARFLSKQE KTLINQLASEEQQKVTSRLED ALRNGRVWQLAIHYLTIVAVY GLIFFLPTQVAALLGTKVGFTA SVVTAIPWVAALFGTWLIPRYS DKSAAKRYTRPHRECGYFSAPY HPPKKVRNNAHSGPGPICLIRL RVRVRPNLGIIEVYKHDSPPNNA
15978	46346	A	16069	283	822	

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15979	46347	A	16070	1	1400	MTDLIQRPRRLRKSPALRAMFE ETTLSLNDLVLPFVEEEIDDDYK AVEAMPGVMRIPEKHLAREIER IANAGIRSVMTFGISHHTDETGS DAWREDGLVARMSRICKQTVP EMIVMSDTCFCEYTSHGHCGV LCEHGVNDATLENLGKQAVV AAAAGADFIAPSGAMDGGYDV FVRNENYWGEKPAIKKITFNV PDPTTRAVAFETGDIDLLYGNE GLPLDTFARFSQNPAYHTQLS QPIETVMLALNTAKAPTNELAV REALNYAVNKKSLIDNALYGT QQVADTLFAPSVPYANGLKPS QYDPQKAKALLEKAGWTLFAG KDIREKNGQPLRIELSFITDAL SKSMAEIIQADMRQIGADVSLI GEEESSIYARQRDGRFGMIFHR TWGAPYDQRPSQSKRVRQR*F QAQD*MKKPTQSKWNRATR VRGGREILTKFVLTAFLKWLKR SNSRRVSFAG
15980	46348	A	16071	592	1427	IPIGVTPCFSTLRRTLFALLACAS FIVHAAAPDEITTAWPVNVGPL NPHLYTLNQMFQAQSMVYEPLV KYQADGSVIPWLAKSWTHSED GKTWTFTLRDDVKFSNGEPVD AEAAAENFRAVLNDRQRHAW LELANQIVDVKALSKTELQITL KSAYYPFLQELALPRPFRFIAPS QFKNHETMNGIKAPIGTQPNW LQESKLNQYHGFGRNENYWGE KPAIKKITFNVIPDPTTRAVAFE TGDIDLLYGNQRLPLDTFARF SQNPVYHTQLSQIWNQ
15981	46349	A	16072	1	1071	
15982	46350	A	16073	585	1072	RPARDVPLPIRGLQPSLRGPQQL PEKPAVEVRLDKWLWAARFYK TRALA\REMIEGGKVHYNGQRS KPSKIVELNATLTLRQGNDE VIVKAITEQRRPASEAALLYEET AESVEKREK\MSPRGPPFVGAP KNPRGFLKLNALTMHPDPRP DKKERRDLLR
15983	46351	A	16074	36	356	ASHTLARKSC*S/PSLLYQENQA HNQMPASELKASEIPFHPSIKTQ DPKAEKSPRSKR*L*QRQVLP DPAADLSVKPPGPLMLPLCYLS GPADITVLKASQDGLIA

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15984	46352	A	16075	1	2111	MNTPLQSAHHTLTLVEFIA YLV SDSPFPAASTLSLPTCNFPCPT KLGAGTMPPAAAGGQRRPHAA PPAAYPHRNKVRAAEARTSRA VRREYEAGDEASGRGRGRM KSVQNAADRGMWVRERRAV VRGQENTVVVFAAAA SPESDFL QIVLRDIAREMVPEYKSDLQPR TQMDAKKPRKCDLT PFLVLKA RKKQKFTSAKHLWVQRKGKG VEDHADWQQGIWVGVEGKSA EGQGLNLTGAFNRSPENKVSPQ GPALNALEIDSSYLDPQALALP QGWQGLLFPPLLGT ELVGSKLS VQIQKPPSNIKNSRMTQVFHKN TSVTSLPFVDTKGKKNTVSFPHI SKKVLLKSSLLYQVSADGLDPE KAGERPGFSPKPVLERPRIVGKS TVAAEEENQAHNQMPASELKA SEIPFHPSIKTQDPKAEKSPKK QKVTLTAAEALKLFKNQLSPYE QSEILGYPELWFLGLEAKKLDL APEKFSKTSFDDEHGFYLLKVLH DHIA YRYEVLETIGKGSFGQVA KCLDHKNNELVALKIIRNKKRF HQQALMELKILEALRKKDKDN TYNVVHMKDFFYFRNHFCITFE LLGINLYELMKNNNFQGFSLSI VRRFTLSVLKCLQMLSVEKIIH CDLKPENIVLYQKGQASVKVID FGSSCYEHQKGHLPSRLRSAVT TTSMILNKVLR FSEP KLP HLQFE

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15985	46353	A	16076	28	1327	GYKMPVITLPDGSQRHYDHAV SPMDVALDIGPGLAKKPLVIRQ GAAGLMAKLVDACDLIENDAQ LSIITAKDEEGLEIIRHSCAHLG HAIKQLWPHTKMAIGPVIDNGF YYDVLDLDRTLTQEDVEALEKR MHELAEKNYDVIKKKVSWEHA RETFANRGESYTV\SIVEENSAD DDKPGLYFH E EYVDMCRGPHV PNMRFCHHFKLMKTAGAYWR GDSNNKMLQRIYGTA WPDKKA LNAYLQRL EEA AKRDHRKIGK QLDLYHMQEEAPGMVFWHND GWTIFRELEV FVRSKLKEYQYQ EVKGPFMMDRVLWEKTGHWD NYKDAMFTTSENREYCIKPM NCPGHVQIFNQGLKSYRDLPLR MAEFGSCHRNPSGSLHGLMR VRGFTQDDAHIFCTEEQIRDEV NGCIRLVYDMYSTFGFEKIVV
15986	46354	A	16077	1692	1776	
15987	46355	C	16078	1	1341	
15988	46356	B	16079	83	373	
15989	46357	A	16080	2	64	
15990	46358	A	16081	1695	2293	EMISNPFIPSSILPLAKIRNIGIMA HIDAGKTTTTTERILYSSGYTRSL GDVDDGDTVTD FMAQERERGI TIQSAAATFEWKGYRVNLIDTP GHVDFTLEVERCLRVL DGAVA VFDASAGVEAQT LT VWRQADK HNIPRI\ VFLNKMDKTGASFKEYE VITISLQKSGITKLCFFCVLKL V SQERCQASKCNKIEGQRFNQ
15991	46359	A	16082	1	2901	
15992	46360	A	16083	1196	1740	FWLKAMPTIVTASPRWFSC/LR EIRSAASAIATAIQAIARPSTV IATTLNSHGNSSDSTS VEMK AIINKLRILRGRSRPQTRGPTPS SSANGTISQVNMVLKNGSPIEL PSPSCLCTNGSSVPSNTTSIAAT SKTLFANSKDSRDHSALFTRER TLC PRAANSSE PANHQHHKGE D
15993	46361	B	16084	49	398	
15994	46362	A	16085	378	566	
15995	46363	A	16086	1	2184	
15996	46364	B	16087	311	4963	
15997	46365	A	16088	12	335	
15998	46366	A	16089	1034	1400	

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15999	46367	A	16090	1767	2973	SGARRLAG*KPGNAVSAAPFYP YARPV/SMISPMLIPC*CWKC/D PAAKRQFRERTAVRCVAQFVD VGKLIPFWGLCVGIYATNSAET FLHRVVQLLND SVEHTLQDAIT IRDEDFTATPSPADEVAYIQLSG GTTGTPKLI PRTHNDYYYSVRR SVEICQFTQQTRYLCAIPAAHN YAMSSPGSLGVFLAGGTVVLA ADPSATLCFPLIEKHQVNV TAL VPPAVSLWLQALIEGESRAQLA SLKLLQVGGARLSATLAARIPA EIGCQLQQVFGMAEGLVNYTR LDDSAEKIHTQGYMCPDDEV WVADAEGNPLPQGEVGR LMTR GPYTFRGYYKRSSVLGKGSDCS FGVFLPGLLPSASSVRRDSN VSI RNVVSLINSSRWKSGFTWHDN VLQLDGSFPLT
16000	46368	A	16091	845	1920	YPMMRK/RLMKL WREAKALHS DPFEPWASIIEDADKAKSSKQA RGRGGFVRSSWQEVNELIAASN VYTIKNYGPDRVAGFSPIPAMS MVSYASGARYLSLIGGTCLSFY DWYCDLPPASPQTWGEQTDVP ESADWYNSSYIIAWGSNVPQTR TPDAHFFTEVRYKGTKTVA VTP DYAEIAKLCDLWLAPKQGTDA AMALAMGHPPERESGRYRLIPV PASGYPPDPAPEWDQFPHVHEL CDTANGCPLPELASPAGYTSSIN RVSTCVSTLAKSSYRSRVRVKR LRRRFNGGVHFRRVVA VVIDQ HCRTAFTIHWLQREFTEEIKTAT SPLEAFKRPNQNSLVVNALFRSN RNAAAAFSAL
16001	46369	A	16092	1	209	VSMIIAALMMM GIDTGWLLV AAGFVGAI VIAS/ARPGRNSKRL IALISAIGMSIFLQNYVSLTEGSR DVA
16002	46370	A	16093	194	657	CLDHLRAVQSLRLPLSVPAAM RPGAAIGYTMVYGIIGMIN/FAH GEVYMIGSYVSFMIIAALMMM GIDTGWLLVAAGFVGAI VIA/S/ AYGWSIER/VAYRPVRNSKRLI ALISAIGMSIFLQNYVSLTEGSR GLATEMFLEKGDNGTEDGRAR
16003	46371	A	16094	1	3303	
16004	46372	A	16095	3	5071	
16005	46373	B	16096	144	326	

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16006	46374	A	16097	282	599	IPVSI SGCHLAGAGTQTASGVP VHPHGH LAHQ RQSFIGNTKTEC WPISSVPPHHW*A**TDIGAGSG DDQRVLDVWWNWRTKE*P*W W*PTNGLCRKVANRQAAR
16007	46375	B	16098	1	276	
16008	46376	A	16099	812	1084	
16009	46377	C	16100	1	1608	
16010	46378	A	16101	173	504	SADSKPVLPRTSASLVSASCSTR CGLRQASMESNNLTMVFGFSIG KVWMRS*NSATSLAKSRISFGT RRRWHSCTN/SNTRRAMTMM TRPEFWRRQPCGLSIAAIESVIK V
16011	46379	A	16102	1	816	
16012	46380	A	16103	742	1182	PAFIECSKAQENNHKGNCYQSG SLVSR*AFLIRHTRPVITNARR*F *RKVFHQ RHGIAGTGSWRGFPL NLH*RQTVVAFQSRRAIHPM*S GKGREWHHFAVGAADIKFIDIF WQHTEFGIRLNTRRAMTMMTR PEFWRRQPFTEIVA
16013	46381	A	16104	550	884	KRYGMAASFHSGEITTHRTPAP WRMVVMSPARMAHDLAQTA WRG/APRPLPDTLATMTPQAY/ NSIQYDAEKSLWHNVE/NRQLD AQFFHMGMGFRRTLWAGITN AQVCGWTA

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16014	46382	A	16105	2363	2856	MLTLWSSPTTTRRWRWAASSV ANTLA*MTLSMAAMLSPQVDV RFATLCHDLGKGLTPPELWPRH HGHGPAGVKLVEQLCQRLRVP NEIRDLARLVAEFHDLIHTFPM LNPKTIVKLFDSIDAWRKPQRV EQLALTSEADVRGRTGFESADY PQGRWLREAWVAQSVPTKAV VEAGFKGVEIREELTRRRJAAA SDTIPQLNEHDIHRRRHKNKAIN GERDQRNALNQLQEGFNRYQR HHKSGDQPNGKHRDIAACQEA PALVEIERRCAHHHRHRQKERK SEQHAARFGIANGDLVRVWNK RGQILTGA VVTGDIKKGVVCV HEGA WPDLENGLCCKNGSANVL TADIPSSQLANACAGNSALVYI EKYTGNAPKLTAFDQPAVQAN TRPLRLARNQHRAFRCRITFHR FTRIMWVEEIGQRFNGNHPFGRV RIQDSLVCVCGALRYISATFNWV RKRAVTCVRSFGSDFTGSPPLR APKGESIRLLALREAGIIHILAL GEDYKMEINESRTVLKTEDNSY SFDVFIDARGQRPLKVKDIPFPG LREQLQKTGDEIPDVGEDYTLQ QPEDIRGRVAFGALPWLMDQ PFVQGLTACAEIAAACGPFDKD RIEGGIVVRMAKEGETLVLLDG TEAKLNADTLVIADHNKALAM GGIFGGEHSGVNDQTNVLLC AFFSPLSITGRARRHGLHTDAS
16015	46383	A	16106	390	636	KFLSFRPDRVCVACAEEARAGL CLRQCITGHPEACLAIPVLCVE CWGGTDADQPVAVFPSRFSQV SPDRGT*QWLCWKFL
16016	46384	B	16107	1	520	
16017	46385	A	16108	142	243	
16018	46386	B	16109	275	919	
16019	46387	A	16110	1	693	
16020	46388	A	16111	522	714	

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16021	46389	A	16112	1	900	STCSSRSHLHLIQASPILPNYVA TAVAARIADVQGSDTCVIAQP SPPHPGALRTLVTFTDEPETPQP PGAAGFQLVQKKQVQLHNVLY VMTPHAFAGQTVTIYLPGEQQT LSVAPLKNVVQLVTQQHLRDR LWWPGAFLTDFAAKVKALKD/ YPNHVMAQRASGEAEADDDV AATIKSVRQQLNLNITGRLPV KLDPDFVRVDENSNPPLVGDT LYTVQRPGTEQGSFKVKRARA RVRQTRAPLFGPKSPAPEHMES ELEFELIGPSKSTSGNPRGLRSE RPVLFCLYPEMPTAAAR
16022	46390	A	16113	150	649	NALLGTCPGTARFPGTGSAPTL HPDASRSRGRAACPRSAQWS PRPWQSVAGLAWLGAHWGSR STSRTAETASKRGHPRSPAQAQ LPPGPRPPRAPQLQRALQSVHP LSPRPAPLA/EPKLTAACWAEA VKITTVRYSDSCSRLTDLGKP VQSMMLKDIRKVYNWQ
16023	46391	A	16114	153	740	THQLFLPPHHQEISQTTWLSAA WPRHTCAHSLSPLQPPVPFSRP HVPLPGPSKTWSDGPRQLSLPG/ RPSERTPRR/CRSASGQPPHLGG EERLCLAAPSGRICHCEGDDES PLITPCHCTGSLHFVHQACLQQ WIKSSDTRCCELCKYEFIMETK LKPLRKWEKLQMTSSERRKIM CFSDIPRHCRPMCGLVLVCAH
16024	46392	A	16115	1	1194	
16025	46393	A	16116	323	642	TGYARQKVPVPA LGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGG/VGEM ANGNGERNHKQIGDTVLTTPPQ HYRKIYQPIAARSCIRCVCGS

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16026	46394	A	16117	1	1782	MAGIRSTLIKEKNMITNYEATV VTDDIVHEVNLEGKRIGYVIK TENKETPFTVVDIDGPGSNVKT LDEGLSLLLSLVIVVIMKLFYQ YEQRFGMRSTSLNIVIGSNTIAI YTTHRILVEIFSLTLAQMNA RWSPQVELTLLVYPFVSLFICT VAGLLNLTVMPEQYRYTLPV KAGEQRLGELTGAPCATLVA EIAERHAGPVVLIAPDMQNALR LHDEISKFTDQMVMNLADWET LPYDSFSLHQDNYLLVAFQPFY QLTDDAAVGVLI PVNTLMQR VCPHSFLHGHALVMKKGQRLS RDALRTQLDSAGYRHVDQVME HGEYATRGALLDLFPMGSELPY RLAIGVNVAQAEVLNLESGAK QVLQETFGYQQFRPGQEEIIDT VLSGRDCLVVMPTGGGKSLCY QIPALLNGLTVVVSPLISLMKD QVDQLQANGVAAACLNSTQTR EQQLEVMT RPRIGDGTGALRK RVAQLAFKNQPMVMGNWAQS ILHGGVIASALDVAAGLVCVGS TLTRHETISEDEL RQRYRGWGP LIFALIICAQAGASVLLLLLVACC VQAIKSPSPALNYTMKNSFILPV
16027	46395	A	16118	380	1431	TALLIRDMPPYVEAYPNENLTT VMPEQYRYTLPVKAGEQRLLG ELTGAACATLVAEIAERHAGPV VLIAPDMQNALRLHDEISQFTD QMVMNLADWETLPYDSFSPH QDISSRLSTLYQLPTNIQGGVLI VPVNTLMQRVCPHSFLHGHAL VMKKGQRLSRDALRTQLDRAR YRHVDQPAHAGGKVLEMIVVG IATWLGFLFLGFLNYSLLAVLV GFSVLIPYIGAFVVTIPVVGVAL FQFGAGTEFWSCFAVYLIIQAL DGNLLVPVLFSEAVNLHPLHHR EQIGGNKMADRQCRKIVCATV RQLPEGGRGEMANGNERNHK QIGDTV LKATGSKQGDGQNHG
16028	46396	A	16119	1	940	

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16029	46397	A	16120	114	1380	NRVHCRRCSSGGDTGVSHLKG INVKYRYELTDSVGVMSLGF ASKKSSTVMTGEDTFHYESLRG RYVSVMAGPVLQISKQVSAYA MAGVAHSRWSGSTMDYRKTEI TPGYMKETTARDESAMRHTS VAWSAGIQINPAASVVVDIAYE GSGSGDWRTDGFIVGISGV LKD GTGKPVQNCTIQLKARNSTTV VVNTVGSNPDEAGRYSMDVE YGQYSVILQVDGFPSSHAGTIT VYEDSQPGTLNDFLCAMTEDD ARPEVLRRLMVEEVARNAS VVAQSTADAKKSAGDASASAA QVAALVTDATDSARAASSTAG QAASSAQEASSGAEASAKAT EAEKSAAAESSKNAAATSAG AAKTSETNAAASQSAATSAST AATKASEAATSARDAVASKEA AKSSETNASSADYAAS
16030	46398	A	16121	165	299	GILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW
16031	46399	A	16122	1	388	MGSKSWVTQKGPAAQSSQV GRVKQATATDTGRTRDSHMER PKCSKGYLCLPYMALQQHHLL SDVTVRGFVAGATNILFRQQKH LSDAIVEVRLCGSDLVLYGTST PKNLIWVMVHVVGHRPDRR*C CCNA/SVRQTQISLRAFGSFHM AVSGSSSVSGCSLFHSAHLTAL CFSWPLLCYPTLGPH
16032	46400	A	16123	130	414	
16033	46401	A	16124	1	387	
16034	46402	C	16125	1	1611	
16035	46403	A	16126	318	401	
16036	46404	A	16127	519	658	YPGSPLLASKGTKLDGE*V*RS RLQKVGNNKLLQAKGACSNPT QES

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16037	46405	A	16128	1	1837	FRPRQLVAAKPSVFADVQSMES VGTGGGAEAEAGGVRSRGLCPT RMLPGLAAAAAHRCSSSLCR LRLRCRAAACNPSDRQEWQNL VTFGSFNSVVPCTHPYIGTSLQ EKLYSTNVHKEGQGSHTLREE KVPSFVTAEGVGAKLISPLKQE PLQVRVKAVLKKREYGSKYTQ NNFITGVRAINEFCLKSSDLEQL RKIRRRSPHQDTESFTVYLRSD VDAKSLEVWGSPEALAREKKL RKDAEIEYRERLFRNQKILREY RDFLGNTKPRSRITASVFFKGP KVVMVAICINGLNCFFKFLAWI YTGSASMFSEAIHSLSDTCNQ LLALGISKSVQTPDPSHPYGFSN MRYISSLSIGVGIFMMGAGLSW YHGVMGLLHPQIESLLWAYCI LAGSLVSEGATLLVAVNELRRN ARAKGMSFYKYVMESRDPSTN VILLEDAAVLGVIIAATCMGL TSITGNPLYDSLGLGVGTLLG MVSAFLIYTNTALLGRSIQPEQ VQRLTELENDPSVRAIHVDVKA TDLGLGKVRFKAEVDFDGRVV TRSYLEKQDFDQMLQEIQEVKT PEELETFMLKHGENIIDTLGAEV DRLEKELKKRNPEVRHVDLEIL
16038	46406	B	16129	1	1065	
16039	46407	A	16130	1248	1658	PLALPEFISKSWKERLTDTTVLF LKARRQSLCLQIGGDPLES/ILQ AFCVLSVAKESQLYTYLHAIMR TLKSSIARGARTFQSTSDGTVKS RPSKIIFLRLHDFRFRFSALRHL DPKKLDLGDGSRSAHRPDRFF
16040	46408	B	16131	969	1026	
16041	46409	A	16132	339	432	RYMVLSEFRSMQTGITKWKERL L*NCRKRE
16042	46410	A	16133	3	443	HTWNSDRTMYLQRRHIFFKNC FWLQAGYSLGAPSWRSLVTWV QIIFSDFYRKTLCSNSPLF*SLC QRQSTLLGTLIFCSYASSPEAI NSAAPRVRSRTPDKARSPRG VGGAEGNGSRDTEPKGGRPLA TPSQGERLMAGTVTK
16043	46411	B	16134	34	1426	
16044	46412	C	16135	62	217	

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16045	46413	A	16136	1	609	MIPVSEKSKIGQLNMLKGKKT KGKKVALVPAAVKKQEAKKV VNLLFEKRPKNVGIG/QDIQPKR DLHRFVKWPRYIRLQQQTAIL D/QFIQALDQQTATQLLKLAK YRPETKQKNKQRLLA\RAEKKA ASKGDIPNKRPPVLQAGVKTVT NLVENKKAQLVVIAHDVDPVE LVVFLPVLHCKMGVPYCIKGG ARLGHVHRKT
16046	46414	A	16137	1	824	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKR\PK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPPAINQ FTQAL\DRQTATQLLKLAKYR PETKQEKQRL\LARAE\KKA WPKGTFPTKRPPV\LRAGVNTV TTLVENKKAQLVVIAHDVDPIE LVVFLPAL\CRKMGVPYCIKGG ASLGRIVHRKTCTTVAFTQVNS EDKGALAKLVEAIRSNYNARY DEIRRHWWGGNVLGPKSVARIA KLEKAKAKDLATKLG
16047	46415	A	16138	1	799	
16048	46416	A	16139	1	344	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLTPTYPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYPMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGFRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16049	46417	B	16140	1	1323	
16050	46418	A	16141	1	1356	
16051	46419	A	16142	1	1524	

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16052	46420	A	16143	173	2310	QQWASRTRRWRSLLITLTCVDA RSQHDYIALSRLFHTVMLFDVP VMTRLMESEARRFIALVDEFYE RHVKLVVSAEVPLYEIQGDRL KFEFQRCLSRQEMQSEELYKR EHLAAKPETVKRDWYVVDAT GKTLGRLATELARRLRGKHA EYTPHVDTGDIIVLNADKVAV TGNKRTDKVYYHHTGHIGGIK QATFEEMIARRPERVIDNRRGS LRQAGYAIHDGGNNSMAKNTS CGVQLRIRGKVQGVGFRPFVW QLAQQNLNLHGDVCNDGDGVE VRLREDPETFLVQLYQHCPPLA RIDSVEREPFIWSQLPTEFTIRQS TGGTMNTQIVPDAATCPACLA MNTPGERRYRYPFINCTHCGPR FTIIRAMPYDRPFTVMAAFPLCP ACDKEYRDPLDRRFHAQPVAC PECGPHLEWVSHGEHAEQEAA LQAAIAQLKMGKIVAIKGIGGF HLACDARNSNAVATLRARKHR PAKPLAVMLPVADGLPDAARQ LLTPPAAPVIVLVDKKYVPELC DDIAPDLNEVGVMPLPANPLQH LLLQELQCPLVMTSGNLSGKPP AISNEQALADLQGIADGFLIHN RDIVQRMDDSVVRESGEMLR SRGYVPDALALPPGFKNVPPVL CLGADLKNTFCLVRGEQAVLS QHLGELSDDGVQMOWGQRLC RMGTQVLPPTFNIEKKVQSARY
16053	46421	C	16144	1	184	
16054	46422	A	16145	85	416	
16055	46423	A	16146	96	570	

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16056	46424	A	16147	2	1690	CCCCCCCCPCWGRVSGSVAGG PRQGLGLPLSLCISPGSLNKDPS YSLQVQRQVPVP/EGLCVIVSC NLSYPRDGWDESTAAYGYWFK GWTSPKTGAPVATNNQSREVE MSTRDRFQLTGDPGKGSCSLVI RDAQREDEAWYFFRVERGSPL TQKPDVYIPETLEPGQPVTVICV FNWAFKKCPAPSFWSWTGAALSP RRTRPSTSHFSVLSFTPSQDHD TDLTCHVDFSRKGVSAQRTVR LRVASLELQGNVIYLEVQKGQF LRLCAADSQPPATLSWVLQD RVLSSSHPWGPRTLGLELRGVR AGDSGRYTCRAENRLGSQQQA LDLSVQYPPENLRVMVSQANR TVLENLGNGTSLPVLEGQSLRL VCVTHSSPPARLSWTRWGQTV GPSQPSDPGVLELPPIQMEHEGE FTCHAQHPLGSQHVSLSLSVH/S PSTAAGPLLLLGG*GSALQLLL/ SRPARPPLCAGGLGRSCWRGTA VRAPSRPPAQPGPAPTAP*AS MEGSAPASGSAVRPGTSTGPRV ALSSSCYQGSWSMGEDLAWGL PWELASLPCLSLSPALSSSG
16057	46425	A	16148	3	1578	VTQLLCTSNRRALFALFPGR RFRPVATNHQSREVE MSTRGRF QLTGDPAGKNC SLVIRDAQMQ DESQYFFRVERGSYVRYNFMN DGFFLKVTGMEWGGNPCLSH WGGTLGTAYGLSREGSQGPLQ HKN/HPTTVSVPALTQKPDVYIP ETLEPGQPVTVICVFNWAFEEC PPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPQDHNTDLTCHV DFSRKGVSVQRTVRLRVAYAP RDLVISISRDNTPALEPQPQGNV PYLASPK\GQFLRLCAADSQPP ATLSWVLQNRVLSSSHPWGPRP LGLELPGVKAGDSGRYTCRAE NRLGSQQRALDLSVQNPPENLR VMVSQANRTVLENLGNGTSLP VLEGQSLCLVCVTHRQPPSQAE LDPEGTGSEPLPALRPRGSWSW LVGSSGARRRVHLPRSAPTGAP RRTLLPSPCTTPRSCWAPPAPGR LRVCTAAAPPRPARPPLCAGGL GRSCWRGTAAQGLLRGSPPAQ PGPWAQTASPEPSMEGLNSGPQ

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16058	46426	A	16149	90	1029	MLLPLLLSSLLGGSQAMDGRF WIRVQESVMVPEGLCISVPCSFS YPRQDWGTGSTPAYGYWFKAVT ETTKGAS\VAPNPP\SREVEMST RGRFQLTGDPKGNCSLVIRDV QMQDESQYFFRVERGSYVRYN FMNDRVLALKVTALTQKPDVYI PETLEPGQPVTVICVFNWAFEE CPPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPQDHNTDLTCHV DFSRKGVSAQRTVRLRVAY\PP ETFGISIFTVTNTPDPDENLRVM VSQANRTVLENLNGNTSLPVLE GQSLCLVCVTHSSPPARLSWTQ RGQVLSP
16059	46427	A	16150	270	1001	CCCTVYRAFIRKRLKRSSDSVY RRKNPSASYDRDAEASLA AVK SGEVDLHQLASTWAKAYAETT LEHARPEEPSWDEDFADVYHD LIHSPASETLLNLEHNYFVSISEL IGERDVELKKLRERQGIEMEKV MQELGKSLTDQDVNSLAAQHF ESQQDLENKWSNELKQSTAIQK QEYQEWVIKLHQDLKNPNNSS LSEEIKVQPSQFRESVEAIGRIYE EQRKLEESFTIHL*AQLKTMHN
16060	46428	A	16151	60	648	LAMSLSHLYRDGEGRIDDDDD ERENFEITDWDLQNEFNPNRQR HWQTKEEKGSLQRKEFFTDLV GLCFCAYRARDYSAPVNFISAG LKKGAEEAELEDSGFLRFFFI LFFH*LSFDFSFLQGGNFKPSQK GFAGGTSFMDFGSWERHTKG I*FTYMNCCDRKTLFFFC*NSSG IINPIEAKQRKGKGA VGAYG
16061	46429	A	16152	237	450	LAMSLSHLYRDGEGRIDDDDD E/REENFEITDWDLQNEFNPNR QRH\WQ\TKEESTYGVWAERDS DDERPSFGG
16062	46430	A	16153	12	85	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEIWCEEDERKMARE FLAEFMSTYVMMNIHMIVEKN T*SPFCPWARATVSGPPVAPKW SPGP
16063	46431	A	16154	49	481	
16064	46432	A	16155	20	248	
16065	46433	A	16156	493	728	VSFLSMSSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMAREF LAEFMSTYVMMVSGRAARSG WALPGPSMTSPF

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16066	46434	A	16157	136	306	ASSSREGLTKFAKFTKFTKIHQI *ITLTSYSIKSLEKVCADLIRGTK EKNLKVKG PV
16067	46435	A	16158	563	1216	MMFWPELQPRVCWMGLSWVN HQNGRRRRKNQKHH*QKVPLL IMASK*KLLEFLNRETKASANL SETVTKPPLPQKNTAQVGASSQ TRKPNKLAPHPAVPAFVKNTCP SRPRERQTHFLRPEDRMVAL KPIKIVLPPVFMFSSPQGIRSR MPTQHLYCRWVAPKALVPTCL PTHSLSRKEEKPKRMDTPFLPY SRPPSGEWLLIVLWFFNRSQRS
16068	46436	A	16159	1	143	
16069	46437	A	16160	40	230	KQAAQPAVATLSGPLPHCGSFV LSLFAINLVAHSLGPHCLYEL* HSPRRSTASLREGPRLHS
16070	46438	C	16161	233	319	
16071	46439	A	16162	290	472	EFLDTFCYIPKVVDQ*D*THKQ QHNVAIIPHVSSAQMSTFC*RT MPTISDDPWHMASMAV
16072	46440	A	16163	3	553	
16073	46441	C	16164	270	608	
16074	46442	A	16165	2598	2943	HSPRGSAAFLKSVRPRTHQFR TQEDRLSPGIQDQPGQPSNTPSL QKL*N*LGVMGRICSPSYLS*P WREDHLSPGG*GCSEP*LHHCT PAGVTKSDRVSKNK*INKNKIN NDNQ
16075	46443	A	16166	2	58	
16076	46444	A	16167	218	342	
16077	46445	A	16168	734	872	
16078	46446	A	16169	1233	1706	CLVFWLLYYPGQLQPFHLLPHS LGSGQQSSEESAATPSLAEGRR EAAFRCPAGLARQAWRPHAR LPGPAAPLAAPSLAPLTGRSG RWLPMLCAASC*SPSPAMSVYP QRRLGQGGAEDEGGPVSRGC RAPGPQRPLAAPGEQTAARTQ AICLIW
16079	46447	A	16170	598	1159	CRQTGVKIYDVWFFWLLYYPG LQLPFHLLPHSLGSGQQSSEESA ATPSLAEGRR EAAFRCPAGLA RQAWRPHARLPGPAAPLAAPSL APLTGRSGRWLPMLCAASC*S PSPAMSVYPQRRLGQGGAEDE EGGSVSRGCRA PGQRPLAAPG EQTAARTQASVYLLLPSPPLL SALHIHLLPPS

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16080	46448	A	16171	834	1185	RSLFRHHRPSAAFPRTPCSDCPR CSAGTMEDCWLVLGSPELR*KS LHERPFHWLPSPSRARCCLPRSE TPAGVPVPRPGPRRARRPRGTS RPPPASSRGRGALGSLPASEPLP ARAT
16081	46449	A	16172	78	478	VVKNSLIFLVNQVLNSRDFHVF FKTT*NCPAQAHATAALYQGLGP ACSQRASHWMSSSSKRSSKSLK KSA*TAFSLAAKSIKSPGAASRL GNGKARLCQVRFPKEQVISALQ GHYPHKRRRWVRGNRLKLEST F
16082	46450	C	16173	1323	1656	
16083	46451	A	16174	77	231	RSCMTLMWPRSTP*FGLMERR RHMFDWLLITMLWMLPTKLGS SKLSPAA*F*SSCLIL
16084	46452	A	16175	1	255	STSKGEKPAIRAMAHFLEPHPIN FLGARARKADLSPT*YHFFKHL DNFLQGKCFHNQQDAENAFQQ FFKSQSTNFYAGSSFVTEV
16085	46453	A	16176	690	1020	SPVLQRAFKNGPGTANERTVQ WWFKKLCKGDESLEDEEHSG* PSEIYNNQLRAIFKADPLTITRE EVFPHPLYSPDLSPTSYPHFQHL DNFLQGKCFHYQQDAEHAFQE
16086	46454	A	16177	1	383	MHRSCGSDAYALLGERSVSLR RCAVRHAGGIRSANADISNDKA GEKPARRKTKGSCPTLIGAGLV QSLSPIQSAADAGELGSNGILPD VESLRIPVQYLANLLTAGDTKP VLRALKRMLAMRHYKRAETV DGKVDTRALEEVGLTEAQAQE MYRYLAANYEDRFVVPSSHRE LAREAFPEKNGCGFTFGDGCH GSDTKFNLFSRRIDAID*PCPD *RWTGTLGLPASGLFTRFIVTY VSIRTSDTSSMPHSTPSQA/TERS PNNA*ASLQTC

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16087	46455	A	16178	740	1977	SASASRSLEHITVTPSTGILTCFP STTPFGLAL/GGTLGLPASGLFT RFIVTKSSIFSVTPLVQPKPSCN GYSPPPPVPVPHRREFQRRVIAEK IFCQHHRAKLNRLEERQYLTVN FRAIAQRVNIGITGLQITIDANA AINRQPGASCQGRFPGAVRCGG NYRIHFDIALAVQRWPECQNP FPAPVTEISTADERPSPLTGCLQ RLVTFGSVIFGIINMIMRLAPIGR FGAMAFITIGKYGVGTLVQLGQ LIICFYITCILFVVVLVLSIAKAT GFSIFKFIRYIREELLIVLGTSSSE SALRRMLDKMEKLGCRKSVVG LVIPTGYSFNLDGTSIYLTMAA VFIAQATNSQMDIVHPITLLIVL LLSSKGAAGVTGSGFSVLAATL SAGGPIAGSGSGADPRYSTALC
16088	46456	A	16179	757	1037	FLDPSPEPNVTVTPSTGILTCFPS TTPFGLALGVDSPCPD*RWGTG LGLPASGLFTRFIVTYGVTPALD TGLM*LRSCGPPRSM*HRTQQ KC
16089	46457	C	16180	1	313	
16090	46458	A	16181	178	290	LLLGLASEN*HCPIASEAP*TTT DTELWVTLTVEGKS
16091	46459	A	16182	1	251	
16092	46460	C	16183	129	1136	
16093	46461	C	16184	117	364	
16094	46462	A	16185	636	748	LLLGLAAED*RCPIASEAPQTIT DTELWVTLTVEGKS
16095	46463	A	16186	37	444	DPQVGKLLQHCPARIKMTVTF NNHRKPQLSKFHQLYSED TQQ QIIRETFHLVFKRDENVCKFLGT IWSLTTGKLNRGQAPLFGIFHT VELHLEIRSSCQGIVHF*LTCSFSS CPCSGPFVNSPFYLPLESGHSK
16096	46464	A	16187	179	422	LQLGPKEKQSRVLGSFFQVPSC GKMGCSSGSRHIGFPPAPQLSG GPLDPRQSGGISEMK*TE*GGY PKGSPQHYSRKHQGS
16097	46465	A	16188	1064	1374	KEQCLQALSSVKNREKRPSSFH PICWSAVSFSVGREGDMWPLAP FPDSENVAGAGALLRLAALPG LSWALRPPPPAPVRSWATSGW* GGQGREPGRGIPRW

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16098	46466	A	16189	44	515	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADGFWDCSVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSDI LKDPPS\EANSIQSANATTKTSE TNHTSR
16099	46467	A	16190	382	795	DSGRSWKRLLSPPRPMCDTWA LGSYPRLCFAVSPPFSCSLPLPSL FPHSPLLGRPQRQAKPAADGFW WDCSVCTFRNSAEAFKCSICDV RKGTSTRYLKICVTWVVVVI*Q VFIEHTAICALGVQWYKDRPGP CSYGA
16100	46468	A	16191	2	343	
16101	46469	A	16192	472	625	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNIHRYNSENLASL GSQWKFP
16102	46470	A	16193	343	693	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNIHRYNSENLASL GSTQIPLKAFTNPCHTSFTLCKH MVIQAHQEKQLIQQILYLGDLL ET*HFQAFWQALDENMTLLESI TGFEFG
16103	46471	A	16194	340	534	TAIMNDMVTI*TRKFMTNQRLQ RKQMVIDVLHPGKATVPYLILI EQLRFARHCAWYGGDSDETSH
16104	46472	A	16195	80	552	PIPHLEKFHAPTRRTFRGNQM\V IDVLSPPGKADQCP*AQEIPGKT *PKMYQDPHPDVI\FVFWIPELH FGSRGKTKLAFGNDFMTSLGFI AKEKWNPKHRTLQGHGPGME/ ERKKTSKGKPTERERQGTGLEG KFQGGGLAKGPFFGAWAKRRNE VSSS
16105	46473	A	16196	248	474	YPETPESPTQLSSGQPHREQPPE MPESPTQPSSGQSCQEQPPETPE LPM*PCLAQPSQKHKMIKG*QNN KHHENKM
16106	46474	A	16197	223	669	PRPSLPACSPWRIVDDCGSLKS WKRVCQWLQPCPNALPSCLGS PLRCEFSGFPRN*LGLGSTTGSF AVWGGLFSTIDCGLVRRPGPSP FHPVLPALTSVSLPPTPPGGPLA MVGSAMMGWSGEWEILHLA SSTHPYPSLPSPAPPFLE

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16107	46475	A	16202	188	484	HFGRVEVGRSQGQEFQTRLAN KAKHHLYSFMNESQISPIGC*P M/PPKLIRKVHREKNCAGRNL R\QRSGFKTGPPGPPARPSSPTLP PPPPLPRLPRRP
16108	46476	A	16203	36	409	
16109	46477	A	16204	651	893	NTSVKNNFSFMNESQISPIGC*P MAPKLIRKVHREKNCAGRNL RAEKRLQTPGLPVPPARPSSPSS PPTPPLPAATPGGR
16110	46478	B	16205	13	441	
16111	46479	A	16206	3	205	NSSNSFSIQFCSFAGEELCSFGG EEAFWFLEFS AFLRCFFLIFRDL STFGL*CAPLEEKRHSGFWNFQ PFCAAFSSSSGIYLPVFDAGDL QMGFLCGCPFC
16112	46480	A	16207	23	841	EKAKEFRRAEEKKKEVPAVPET LKKKRRNFAELKIKRLRKKFAQ KMLRKARRKLIYEKAKHYHK EYRQMYRT\EIRMA\RMARKA\ GNF\YVPA\EPKLA FVIRIQRVS MGVSPKG SERCCKLLRP FVKIF NGNLL*KL NKG FRLT ML\RI V E PYIGMGGTPILKSVNELIYKR\G YGKI H\RKRIA\LT DYALIARSLG KYGIVCMEELNHEIYTVGKRFK EANNFLWPFKLSSP\QGG\MKK KTTHFVEGGDAGNREDQINRL HRRNELTRLTWIFF
16113	46481	A	16208	1137	1200	PPSAPAPG*LRPPALSSGSP*PPS APAPG*HAPPSAGTPPP

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16114	46482	A	16209	1	1480	MNECRGVEITTVCSSEDWIQRHL PGAVVPLKGEGNVGVATEDHY QEDSFGFGLRGTGKPLKLEKSR PGAVTHTSPSDGLTQYVPDSL AMPAAAVVIWVIRPGCGVQQQ IGFLRHSNIDDIRPRTIIRAVAPV KLHGIRIKMASFTSATRLTDEQ VITAPADSGIVIPRFSNWNVAG GKTHLTHKDSHKLKVGWKK AFHANGHQKQAGVAILTSDKT NFKATAVKKDKEGHYIMVKGL DQQENITILNIYAPNTGAPKFM KQLLIDVRNEIDSNTIAGDFNT PLTALDRSSIQKVNKETMDLNY TLEQMDLKDIYRTLHPTTAEYT IYSTVHGTFISKIDYMTGHKTS LNFKKSEIISSSLSHSGIKLEID SKRNHQNHANTWKLNNLFLNN RWVNNEIKMEIQLFELNNNND TTYQNLWDATAVVLRGKFIAL NAYIKKTERAKKTIYSHTSGI*K QEQTTPKPSRRKEIIRAELEI TTKKTIQKK
16115	46483	A	16210	32	398	ASERLGGPGSPG*/PVNPRTDGS GAAWLSQRAQCTQSDPRV*EV PEHLSPSTPSQEYRGLPALPHTS RPSHCLPACPLPSRTQPWVPVK PGPTACRGFLQHSPTPGSPSP*S FQGSSWWDTDL
16116	46484	A	16211	2	681	AEPWDEGGDGVPCRPVSSGSV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQQQIP GPRLVLQFVQQAGVCGPGGNA VYSTPRDSASLVSGRTSMLFLR KFGKTWRKGLHQRGPASP LGRECNWG*VIGRHPAQSS/SGP ACAKDAAELGAAMPGLVSGPL GAALQPRGAGVQLGAATGPGS CSK/RGSPKADAR/PRHSQEPGQ VPPHAPQGPGLS

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16117	46485	A	16212	102	1005	VQWSARPDATPLSTEPSLADYP EAQSHIPRRGPRRPEKQGRGGK PPRALGRERAGGSRGPPASPD PLSRPCSQAPPPGASAGA*DAP ACRREAGSDGVPCRVSSGSV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQGQIP GPRLVLQFVQQAGVCGPGGTD GSGAAWLSQRAQCTQSDPRV* EVPEHLPQVDTHKGELYQ*PGG RDGPGWEEPPQCGMGVSEAHG GAGGPGEAGKGRLLQRKFGKT WRKGLHQRGPPASPVLRPR PE*VLLRCD*EG*PPSAGQLL
16118	46486	A	16213	378	494	GTACLQIPQTQGV*QRGFLAEY IQWQLRMRSISIPVRTG
16119	46487	A	16214	18	894	SVGSLCCLQETPGLRAFGVPWR SAQRRWPRRSAASLLSLVLPGR AHSRPTLAPGLEAQQPPPGG SALAQHSRTAPAGTSAACLWP VSEQGAAPMCQVTRPPGSQAP CSQPSAHAKHLTTGSSSPA SALPRA*TGSRWETKSSSERVSSF SA*GTACLQIPQTLRRRTG*RQ VGRRLPGSGGFDGCSIFS*S*PV TYSLRVSATSSNEATQLGTT*S NSIIFEFCSAQSTAVRCRLFST*T DAPWSRSSSTTKTCFSITASCSA VLPLLEALMEAPCPCLACSSA S
16120	46488	A	16215	340	582	
16121	46489	B	16216	93	711	
16122	46490	A	16217	1378	2081	LSRKKPNWPSSMPWYQFSLIWL MSVKTSPSWKPSSPWFSGWKS YSTLQLGWSRGGMLLLGVQM DLLEDWKGDEAAILGTVVQ GK PPLDCSGSPRSK\APRTWAYTPA WGVRLPASCA*ASLPARPGSA WPASGRSAAPPP/AARS*LICSM SVSRRLCMLVSA TSLESSNFSSA WRSSSSGILPCRFSMSRESFTSA RCFMDSPASSASLKLDSLPSFF WWRIRHSLRSPSDCG
16123	46491	A	16218	191	288	
16124	46492	A	16219	67	209	
16125	46493	A	16220	96	341	
16126	46494	B	16221	1	1185	

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16127	46495	A	16222	192	703	AMPSCTRAGLAFVCHVRRRGCLSCRGVIPASSQCLFPAPMGTTATLRMENV DVKKEEWQD*DLPRPLPEETGV ELLGSPVEDTSSTNTLNFNGAHRKRKTLVAPEINISLDHSEGSLLFDDFLDTLDDLDINVDDIETPDETD SLEFLGNGNEL EWEDDTPVATAKNMP
16128	46496	A	16223	8084	8251	TAGDERHGPSRVRMFRIKGRRLGWMGPLGRGKR*VTRGMWPGKGPAYPGSSASSF
16129	46497	A	16224	645	1317	WGASRLREPPSPRTLHSPRPGP ASAPPLRPLPQNRTSPSAASTT APPQPSEASRLPA*KAKPKPHPP SAPRRGGSPPRHSAQPACGRRR PRSVGGAAPYAAERRNSAPQGP PQRLRRTAEGGKRPSNPRQRSH PRQRGDSLP*LGPWSRDRRAGR DGRDGSAGGTRRSPSPRYASPE PLGPAAPASPAGASWTGGPGRR ADDSWRASVFGAQSSACFPRA RVL
16130	46498	B	16225	72	378	
16131	46499	A	16226	151	372	GGQHWAKAWRQTLGPEMPERTGACGCGSL*PFTTPPPAICVD GTFHKYVFTPDGNCNREAFDV YLDICDDDDF
16132	46500	A	16227	182	1083	HPGPCPDHEQVGSMLVEDPV SPGLPLTLNLGPDNPPTCPAVLI WDDAREGKD*EG*SSLGIPPPP HGHPVLC DTHRIVIVLKNRQLC PF*DAASSSAAHPTPHLHTLGL CELPCGLLAPSLHTTPTS DSSLL PQDLASTKPGTSSAPFTINAHQS DIACVSLNQPGTVVASASQKGT LIRRVCMVGW*PHTT*HVGITA DLSSSINFSDSSFLFPTLPCPCP PAHLPYLGLASAACRLARVGK VGPMIGQYVDSQWSLASFTEM PERTGACGCGSL*PFTTPPPAI CVDGTFHKYVF
16133	46501	A	16228	202	517	GVHCHGFSAGQAAGQEPTSVH ETLLPHQLQDQSALRGGVQNR QRHQA AEGPGERAGAA VSVGL GEPQCH*VGAGRAARGPPILEV PAGGADAAAECPAGPHGCGG

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16134	46502	A	16229	141	633	WENARPEPSQGD LRAASVVS PR LPPRKQGGLGYFGRGAGHAH GTAGQGASESETLLPHQLQDQC ALRGGVQNRQRHQA AEGPGER AGAAVSVGLGEPQCH*VGAGR AARGPPILEVPAGGGDAAA ECP AGPHGQNARGQQSGISQLRHE REFLLRPFPPQAPQL
16135	46503	A	16230	65	466	VVFAEAAEASLMTSGVGGGAA QSPRSRRGGWWPLGEMPYANQ PTVRITELTDENVKFIIENTDLA* GYRGKRLAALGRGRPKPGPRG RGRGCSGWGGGDVLP ELPCT RALALGACGAGPACRGCSAFTP LGF
16136	46504	A	16231	42	491	SGGKEAQGGSGTDQTVVVL SN PTYYSNDIPYTFHQDNNFLYL CGFQEPDSILVLQSLPGKQLPSH KAILFVPRRDP SRELWDGPRSG TDGAIALTGVD EAYTLEEFQHL LPKMKG NKWEQKSHYKPDWD *NLSCLFRQVLN FVIVAPP
16137	46505	A	16232	531	976	NQSIVRVNVDNLSIPVIAAELG VRKPSEKGMQQKKKTKDLGFR AGKESKTEWRK*GLQDMASQ MFASPLK*PVTA AFHDSSMPSS LLQIEMEQLFLEARLQLDSKSE ARRNQCD SMLLRNQQLCSTCQ EMKMVQPRTMKIPDDPKAS
16138	46506	A	16233	2	419	SFLSSSYTRTKSILRWPSLKKR ESGFPLNSSNSGVKSC*LSSDP KSGTIVCPRFSNTISPSSSSSSSI CSKTFLAPSF SCLPQKAAPNLAR SWGLPGSRTARLSQGPDRGPRG VCRLGSGAAEPSQRRGKPSRDE IV
16139	46507	A	16234	27	792	INSIRILSTCKMGHPRFAPQAPG PLRTSEKGP AVLPAWGNSSSDH SSEPSVGFYFNEDSDGSHPV LQ MRACSPDPAQGARPSAEAPGQP *HSASRGSDPKVASEWRLPHAE ASPQLPGFSGAASPAPKHSCSSF SCLPQKAAPNLARSWGLPGSRT ARLSQGPDRGPRGVCRLGSGA AEPSQRRGKPSRGTHRPEPRAG GRLSPAERSPETEHAQCGRRS LRND*TSPVLRGAQKEVGRRD CRGSSAILRAGEL

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16140	46508	A	16235	343	969	YDKTRLFNTVPLPPPHKKIHKKII QDIKGEILRAFPLRTGTHRCPL SPLLFNILLEVLARAIQEKEIKS IQIGKEEVKLSLFADDIIIYLESP KYSSRKLOELIKEFSKVSRYEIN VHKSVALLYTNSNQAENQIKKS TPFTIAAKNKIKYLGIIYLTAKDAK DGYKENYKTLMEIIDDKNKQ KYIP*SWKGRINIVKTTLSTAIY
16141	46509	A	16236	15	403	ICESRRGRVCSALVRRYVGEFG GKAGSICMPQAPDKSSRWTLI RPPRFPPS\PSCSPGKEAPGGSEL /SPLPHAWSPDPVSPLGDRVTA NPAEIR*EPGPQSAAPGFREQRR RGQMG*IWYLTPTPPGGQ
16142	46510	A	16237	19	454	KGKSLLCTSPKVCRGRLRKS PETKVTHICMPQAPDKTSRWTLI LIRPPRFPPS\PSCSPGKEAPGG EL/SPLPHAWSPDPVSPLGDRVT ANPAEIR*EPGPQSAAPGFREQR RRGQMG*IWYLTPTPPGGQRP SAASPRGFPLV
16143	46511	A	16238	276	898	MKGTA PWRCGRVCSALV PKVCRGRLRKS RPETKVTHIC MPQAPDKTSRWTLIRPPRFPPS SILQSWEGGTGWLRTLPLPHA WSPDPVSPLGDRVTANPAEIRIL GEDPESPEETLNLILRTPIPPKPR GNAKSHPGGHRSHR*EPGPQS AAPGFREQRRRGQMG*IWYLT PTPPGGQRPSSAASPRGFPTNN SSRLPAEPE
16144	46512	B	16239	177	284	
16145	46513	A	16240	253	416	CCPVLPGPWAAGHPGD*PDGP G**AQPHKECRGGFAPLQVTLG PKQPSGKRVNK
16146	46514	A	16241	1401	2246	NIYLLLQVFDWCWLQGILGVSN PSYSIRRCYTAGQSPRGLPDPGR F*G*EESTGEQADCP*GSHRRSR SAAGAADGGLDPGAHTITCGC LSHRGRLVPAQKSSAAL*APSG AKPAPT VAPVHDPARQG*GGQ ARGQGARQPHSHREGLCEC*A VTTL*EPHLRNSSAPA*ERGPQG IRVPEGQSGDQESSAEEHHGGD PGGGKPRCGQHQEPLGAGWPS PAGVEPLLGLLQKGS DGAP**E PQRGCVDEAQSSPGAVPEAK AIAVQPPAPDVFAAVARCD

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16147	46515	A	16242	30	461	IPAETTC/EPAKHFCFTDGSSN GKASYSGSKGKVFQTPYISAQK VELVAVIEVLTAFDMPINVISDS SYMVHSTQLIENAQLRFHTDEQ LIIKTKKGGNRDYGTAQTQLNL ALLTFHFSSLPKGQMLPAAEQH LQKPAAKTQAE
16148	46516	A	16243	1	573	
16149	46517	A	16244	1	1689	
16150	46518	A	16245	1	1416	
16151	46519	A	16246	27	779	KNHFNWKDKFPRLRISFLMVA TVKPPEPTPLKRLTEKPIWIEKW PLSK*KLEALEKL VTEQLENGHI APTFSPWNSPVFIKKKSGKWR MLTDLIAINSVIQPMGALQPPGL PSPAHPKNWPLIVTDLKDCFFTI TLAKQDCEWFTFIIPAVNNLQP AKHFCFTDGSSNGKASYSGSK VKVFQTPYTSALTAELVAVIEV LTAFNMSINMISDSSYVVHSTQ LVENAQLQFQTDDTNDFIYPVA NSS
16152	46520	A	16247	2	394	
16153	46521	A	16248	63	1123	ELDVMGLPEERVSRSGSGSRGQE EAGAGGRARSWSPPPEVRLVSL LRLNMSQKINDIWASISVAEFW GDIAKEFYWKTPCPGPFLRYNF DVTGKGFIEWMKGATL*LCLF LVWGRSYTPNHWFLLVCLREG NEPGGQLDGREQVAARRVHGS YSVLLPAGIQKGDRVAILSNPFL HSLNPWGFLSLRLSSLP*GPM DIVPTRQH GAY*GLECLLLPKD MDMGGSCQVPFEPTLPL*AFL FSRGFPVRCCIVVKHLALTSSH SLYTWTLQGQGTGVSCPHLELF TVLPCPSLQISWNQGIDLWWHE LMQEAGDECEPLPSLHLVVS RG GHKTLTCSPPFPQGVVHTVGGY
16154	46522	A	16249	35	219	ALGVHFLGPGVDGSRVDCG QQL\PTSSACTTSGLSISRRCSGI WRMNQKKQVRGSPKE

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16155	46523	A	16250	1934	3213	WPAPPSQVPSLDYGLALWFDA YVSVHGTQETSQCSPESSLTPPR LCGLRILQPYAERIPVVATAGIT INFTLRGYAWPNGALPASTVPC GFAACPGFLCSVNGRQAPAGS SGFLPPVPSLCPHTVCRATFQCK EDSTCISLGRFPWGSETHLLCPA PIPSVPGVPCGTFTFQCEDRSCV KSLASPLPLLLCPPHLLPPSPD CGLQGPSSRIVGGAVSSEGEWP WQASLQVRGRHILGRGSFLPPH LTPPHPTPPHPSMASTVLWTVF LGK VWQNSRWPGEVSFKVSRL LLHPYHEEDSHDYDVALLQLD HPVVRSAAVRPVCLPARGRIEN RGSRLLRSHFCP*PRTGPISNAL QKVDVQLIPQDLCSEVYRSSPG KGGALTLLQSFLLSPFQGDSSG PLVCKALSGRWFLAGLVSWGL
16156	46524	A	16251	511	853	CCWNMALIQTFQMSMEIPLCTT LS*TALHLASANGNSGVVKLL DRRCQLNVLDNKKRTALTAV QCQEDECALMLLEHGTDPNIPD EYGNTTLHYAIYNEDKLMAKA LLLYGADIESKNKVEEEMKKH ESNNVGLLENLSNGVTAGNGD DGLIPQRKSRTPENQQFPDNESE EYHSHTFLPSRIYP
16157	46525	A	16252	1050	1350	CDPQMCCCFRPEAATPG*REAA SAGPWDSAPPSPARTSLPSAHSS DYPLPRSRSSSASAASRSPRPL STIARRLNPRRSGRSLPSGQPAG PSDPRGFCL

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16158	46526	A	16253	2	3486	SSQSGAAAGAFCGCLCVDLELTA SCDLEADSEDRTEHLATLQLRP DFSGSRCPAPQKHLQTHRPHSK PWPIY*PT*RSYLAISPHSW*AP\ PPSRRRAPPAFHPHTQACPSTCY CHTLASRRGPSNGRYHRPGYPH PTAVQRDPPAGPRGCQSPC*HQ PPACRRPCGRHYR*HGQHDPPP WQ*HC*SRSPCHPPSQRDAVTW PFIHIPAED/SHTQPQKSP\PAFRP HTKTCPFTCYCHTFAGRGRPSD GRHHHLGYHHPSAVQWDPPAC *RGCWRPCQREPQTCPCFCGR/P PPGTSLA*PPHPRVPLKEKLCQY DEFSEGLRHS AHLNRHQ RVPTG EKSVKSLERGRGVRQNTIRNH PRAPVGDMPYRCDVCGKGFY KSVLLIHQGVHTGRRPYKCEEC GKA FGRSSNLLVHQ RVHTGEK PYKCSECGKGFSSVYLQVHQR LHTGEKPYTCSECGKGFCAKSA LHKHQHIHPGEKPYSCGECGKG FSCSSHLSSHQKTHTGERPYQC DKCGKGFSHNSYLQAHQ RVH MGQHLYKCNVCGKSFSYSSGL LMHQRLHTGEKPYKCECGKSF GRSSDLHIHQ RVHTGEKPYKCS ECGKGFRNSDLHSHQ RVHTG ERP YVCDVCGKGFIYSSDLLIH Q RVHTGEKPYKCAECGKGFSY SSGLLIHQ RVHTGEKPYRCQEC GKGFRCTSSLHKHQ RVHTGKK
16159	46527	A	16254	333	695	ISVFRSPGQSTSQHDAATWPFL HISGEGPTPSRRKAPPAFHPHTQ ACPSTCYCHTLASRRGPCNGRY HRPVYPHTAMQRDPPAGPRG CQSPCWHYTPACRHPCGRHYR *HGQHDPPPWQ*HC*FGSPGQS TSQHDAVTWPFLHIPGERPTAS RRKAPPAFHPHTQACPSACYCH TLASRRGPSNGRYHRPGYPHPT AVQRDPPAGPRGCQSPC*HEPP ACRHPCGRHYR*HGQHDPPPW Q
16160	46528	A	16255	9	437	SCNMSLCRCNCVIRAAFKEGTP ALLVYSAILSFTPVSLAKSCSISI AIVSNILSWLDPFKRGVVSELSR LPSRVLL*L*LVHSLKETSFRS SSFSSCRACFLRSSQ/STAGPCR HLCRPTSAGIGEQRRCRPESH EIVDRGI

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16161	46529	A	16256	619	1138	SCNMSLCRCNVCIRAAFKEGTP ALLVYSAILSFTPV*S*DPEAFSP HLPSNCWSLPPSLSSNVSRDRG AEAMQAGKSPWCVFPP*EPGPT GCEPPRTLPPAPFKLCSL
16162	46530	A	16257	408	801	SQRRGSVCRLVHGRHGGQPGKG TSPHSSLWDWQPGPQSGPPWP EGGASPGTPSLIPRS*SASCCFP WHPGCSC*GAPASQC*VALSPQ PWFPLPCLSVSPVGAQATGPK HVRTPPGSDSAPPQLQPQSRI
16163	46531	A	16258	1	199	
16164	46532	A	16259	665	1006	IGSPDGRNVIRERTV/TNETQTEG EREKEEERESFHTGDVLKVGDL GPQGSSREFQLLSNLTVPNFIDI QFPK*VSAAC*DGPSHTHSSYIS SSLFIIRASQSSPGDFSISVRY
16165	46533	A	16260	247	404	
16166	46534	B	16261	258	934	
16167	46535	A	16262	519	924	NRTIQADLLYPDDAGNPLPARN TRQASASADPPGARAGERRRG AAGPSPGR*QQAPGPPPPGEGA GARPG*EGDAAGGATRFVGED ARLLRAGCHRGGRGEAEEPLQ ALRHPGLQGLL*EGAPHGELAL VAF AHL
16168	46536	A	16263	121	214	
16169	46537	A	16264	139	272	
16170	46538	B	16265	1	1962	
16171	46539	A	16266	2373	2554	SATPWLPTGLAAPTGLAAPGT RSPPGQT*PERSPAASPKRPERP ALDFQPPRQPPPPPP
16172	46540	A	16267	919	1653	WNCFVCSADTMAQIMAEQEVE NLSGLSTNPEKDIFVVRENGTT RRPLQPPRGRAS*GGAGRLCS QLITEQADIALTRGAEVKGRCG WRPLGLRTQTLRGRLKRTSPAQ QESHNMSKGPEATCQLSGTLG* EQ*GF*LLLWALAVAGKHTAN SHHLSALVTPAGKSYECQAQQ TISLASSDPQKTVCRTYDSGCF DQSSLLFFPIAEHKCPVDEREQ LEETLPLILGLILGLVIMVTLAIY
16173	46541	A	16268	2	321	PAWPPWPGITGFCPQQDSPSNT FVVPA AHTV*CSHPCSYYKGIR QMVGLPQPLFHPDCPVTPQAHT DSLNTLGVLGPPVCS DATLPQ IINALEEDPAAQKMQLAF
16174	46542	A	16269	120	327	
16175	46543	A	16270	540	791	

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16176	46544	A	16271	1688	1945	DRVSLLPRLRQENRLNPGGRGC SELRSHHCTPAWATE*GSVSKK KKKKKNQKKNQDFISLALPPS PHCPPLSQSLLLQPSSSAN
16177	46545	A	16272	3	343	DIHHVRKSMEVNFLSYVVLTV AALPMLKQSNGSIVVSSLAET AMKAVSGIVHMQAAPKEECAL EIIKGGALRQEEVYYDSSLWTT LALIRNPCRKILEFLYSTSYNMD RFINK
16178	46546	B	16273	48	407	
16179	46547	A	16274	35	646	DLTGFIKFSLLLGLFMAYYYYS ANEEFRPGKYPCVSFWRNRFK KHRGA*VAYHLAKMGAVVV TARSKETLQKVRVLC SQICVPS HAQMCSYI*DMTFAEQFVAQA GKLMGEAVSLTSSSELCPWGH QELLDIHHVRKSMEVNFLSYVV LTVAALPMLKQSNGSIVVSSL AGKWDRDICGR*KKKKNARDD AVQTPGSKSAI
16180	46548	A	16275	221	393	LLYPANCVYMRC PQMLHFQGI QRPILL/HVSSGGAIHLQTGVET EEMRSAIAPDPIPLT

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16181	46549	A	16276	2025	4146	SDEWIISAGSVSGDYNSSAAVS KNDILLGIEHISVFSETNHSSEEA FIKTAKSQLVEIPATQNPKTSF SYERLQALQETCKENKGVPKQ GDTFLSFSAACETDVSSVTPEK EFEETSATGSSMQSGSELLKE REILTAGKQPSSDSEFSASLAGS GKSVAKTGPESNQCLPHHEEQ AYAQTQSSLFYSPSPMSSDDE SEIEDEDLKVELQRLRFRHIQEV VNLQTQQNKELQELYERLRSIK DSKTQSTEIPLPPASPRRPRSFKS KLRSRPQSLTHVDNGIVVIDPLC VESNAASCQQSPASKKGMFTD DLHKLVDWTKAEVGNSLIKP SLNQLKQSQHKLETENWNKVL QLESVYHREDEATWLPQLRAQI VAYPACAAAIASAHRRSMGVQ GFQEFLEKRCPGAVVPVDLLKL ARTVSRQQQQQHLHRQLPPTA ALAPGAPRAARGSVPLQPPLPP AALGAYSGGAGPIRHHHPAHH FHHHGQAQPGLHPPLPPPPPPQ LPGARVLVDAGSALPRLYGGY QTDWVCGGQWNAMLGYLSAL CQACAYPGGDGLELVVMFPGG LGKDRLAEWGRRCQAERQTAQ LIVGHVGNKGTPPPRAWFLPPA CLSHCVRLALIRFRF*VFQSLED HHLEVVAFFRENGFHGLLAHD SEYALYNIPSYSSSHALKLSWN GKNLTTNQFLMQEVAQQLGLK
16182	46550	A	16277	1	542	MRAPPKSGQLQHCRPSRGALRS GDLPWEINPLSSCSLLHEKDP MTSGPQTNQPKHLTNFKSGV RP/LQGRLPWSFTLSGKSRFSGE GASTPTYIS/GAPIPYFRTPTSY LCAPIPYVRTPTSYLCALTPFPL FWRHIRTSKRLN/LQQGPPEPP PPG/CLLQVPEI*PPGQGMCAAQ
16183	46551	A	16278	3	351	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFHPNLIS LRPNPLCPHPDL/GISVP*PLSRF SGGT*ELPNA*TAAA/AAF/LPEP PPPG/CLLQVPEI*PPGQGMCAA QDSS
16184	46552	A	16279	1	513	
16185	46553	A	16280	774	1007	ARSVTSSSELCSWCLQASRHT HVPWCQL*KLPVVHLVQPQPC RGPAPGAALPAGSLEMPGTTEP ERGCHSPGLGIS

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16186	46554	A	16281	507	520	LLGLAAED*CCLIASEAP*TQS LFGGLFTRTHMKFGAVTQIRGP PLGDKSPVLLLFALEQRRRHVL SMDPKLRCWSRTGKAAPWCL IIAEMPDISPTFQRCQTTQGRLP WSFTLSSKSRFSGEGARACYKC QKSDHQAKECPQPGIPKPCPIC AGPHWKSDCSTHLAATPRAPG TLAQGSLTDSFLA
16187	46555	A	16282	269	607	RARSEGAGLWSVVAPSASVVF VSDPRCAPFHRSPSCSPVDRV CRCLRRVALAPAAALVLCSGSH SQSPWNSGLKLSRLLGLAAE D*RCPIASEAP*TTTDAELTIPGL
16188	46556	C	16283	1	1752	
16189	46557	B	16284	146	372	
16190	46558	A	16285	336	753	ARTPLAAASRGSGGTRGGA VAGDDLGRGAPGPAEPGPARRR RGKGTTPSSRPRTQRRPRSAAMH GHRCQPARRSREHPNTYPAGR RPPELRRGRSGVPPRP*RRPGE APRAPRPAAEL*ARLPRPSVRP APARRV
16191	46559	A	16286	1	768	FDELREEGFRQSVITNFSELKKD V*THRKEAKNLEKKLDEWLTR INSVEETLNDPMELKTMAQELR DACTT*FREKRVKRNEQSLQEI WDYVKRPNLRLIGVPESDGEN GTKLENTLLDMIQENFPKLARQ ANIQIQEIQQIPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAREK GWVTHKGKPIRLTADLSAETLQ ARREWGPINILKEKNFQPRISY PAKLSFISEGEIKYLTDKQMLR DFVTTRPALKEL
16192	46560	A	16287	345	894	EQRHNIPESLGGHI*STSAGDTPA DRVWSGPPANSSRPAAEGPDC* KEN*QRARTSNQNPICTPSSK TKEAKNLEKRLDEWLTRINSIE NTLKDLMEKTRARELRDACR SFSSQFDQVEERVSVIDQMNE MKKEEFREKRVKRNEQSLQEI WDSVKRPNLHLIGVPESDGENG IKLENTL
16193	46561	A	16288	1	1206	

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16194	46562	A	16289	1	882	MAPVSASEDFWQCPETSLISQL ESAPGIQLMEARDADKSLIMHE IAPTSNRELPVHKISIAKPCSM MISWFFVNTGQSFQRKDQAAIF AVLQPLLVIHRQTGSGVDLQQT PTDLQLRDLTVRRKNNKQKGI ASTSRKRTSTPKPHLQDHSSSPA MEQSWMQKDFDKLAEVGFR SVITNFSELKEDVQTHHKEAKN LEKRLDEWLTRINSVENTLNDL MELKTMAQELHDACTSFQRQF DQVEERVSVIEDKISEIKQEEKF REKRVK\RNEQSLQTIWDYVVR PNLHLIGVS
16195	46563	A	16290	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIANC IVLALEQHLDPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDVFFVVL TGRKAGLGCCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMAELRDACTS FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QSLQ*I WDYVERPNLRL
16196	46564	B	16291	1	1257	
16197	46565	A	16292	3	467	KTPFVGYYQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDP GSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIK*EDK
16198	46566	C	16293	115	498	

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16199	46567	A	16294	2	1455	TERDSININKKDIYTKTQSVGRQ HORPKVDKTTKMGRNQNRKA ENSKNQSSASSPPKDCSSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLEK K\LDEWLTRINSIEKNLNDLMEL KTMAQELRDACTSFSSQFDQVE ERVSVIEDQMNMKQEEKFRE K\RVKRNEQSLQEIWDCVKRPN LHLIGIPESDGENGTCLDNTLQ DII*ENFPHLAR*ANIQIEIQEIQ RTPQRYSPRRATPRHIIVRFTKV DMKEKMLRAVREKGFKPTKIR RDKEGHYIMVKGSIQEEELTIL NIYAPNTGGPRFIKQVLSDLQR DLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQELNSALHQVDLI DIYRTLQPKSTEYTFFSAPHRTY SKIDHVVGSKTLLSKCKRPETT TNCLSNRSAIKLELRIKKLTQNR SAAWKLNNLLLNNDYWVHNEM KAEIKMFFETRRTKIQHARISGIL
16200	46568	A	16295	395	656	FQLQRPASCSSPIQHRKHIPRKP A\SQSSLPHTGKSARQPQEPQNR ENCLLRILIRVASEATRRWTRPS EFSSRSENPRAHHPRRALR
16201	46569	A	16296	671	1126	RRKVSELEHRRPVWKCPRRPPE VRKPESARVSFSPRGGARRSRP GATRSPQPRVPAASASFGFGG LGRGGRGERARRGRGPKLEGP ESSAVLA*RNFPSPRRRRPGRA GVEIARLGGTGSSPRPCPKPDPT ASLSELFMI PSDIPRRRN
16202	46570	A	16297	2571	2716	THGMLEKRCCLQENMPIIPGKD FMTKTLKAIATKVKIGK*DLIKS FCT
16203	46571	B	16298	54	576	
16204	46572	A	16299	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIIGNDVESR HK\CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16205	46573	A	16300	395	830	LSPCHNSFFFFFQAFDDIAKYFS KKEWEKMK*ATVPGPSLPLKK *TFCSFLGFKVTLPPFMRSVSLE FGNLYQQRKILM*L*STVEMSLI LFICDLHIVKIMPKKPAEEENGL KEVPEASGPQNDGKQLCPPGNP STLEKINKTS
16206	46574	B	16301	54	576	

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16207	46575	A	16302	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIIGNDVESR HK\CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16208	46576	A	16303	393	822	LSPCHNSFFFFFFQAFDDIAKYFS KKEWEKMKSATVPGPSLPLKK *TFCSFLGFKVTLPPFMRSNSLE FGNLYQQRKILMYF*STVEMSL ILFICDLHIVKIMPKKPAEEENG LKEVPEASGPQNDGKQLCPPGN PSTLEKINK
16209	46577	A	16304	1	447	
16210	46578	A	16305	75	565	LLFSGFSLLHGYPHWWYLCHLP RSRSLGLRDKRWKVKGDTDFL SPSHPEYLLKEENDGHLCSLSFR MGNQFSSPLPAYTPLECILNHW DGFYP*NLEEKHLIALRTKGWP NYDLQEGLSWPQEGTIHFNTT WQLELFCRHEDRWSEATYMQ AFYILQGNRDLG
16211	46579	A	16306	1	1620	
16212	46580	A	16307	128	223	
16213	46581	A	16308	1	1578	
16214	46582	B	16309	592	883	
16215	46583	A	16310	1	344	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTIILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPTYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYPMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGFRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16216	46584	A	16311	84	237	DGIVLSTYYHFYWHHF*ILEGP LPANTGDLCLPLQVQPDREQVR WALFKK

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16217	46585	A	16312	2887	3537	HLDRSGLFNIQVIPVCRKLGKE GNDEKQCVTTSTRSNAFFLLHF FLLATFTWMGLEAIHMYIALVK VFNTYIRRYILKFCHGWGKPLK IFLVLFPHENCQVYGKESYGK EKGDEL*VIKTCDE*ISFVS*SG VMFFLNIA MFIVVMVQICGRNG KRSNRTLREEVLRNLRSVVSLT FLLGMTWGF AFAFWGPLNIPF MYLFSIFNSLQGKINCT
16218	46586	A	16313	302	547	QIGLWTPNFRARTFCVWTGGL VLCF*GFCFQEAAGARDTSSFA MGVSPWEFRHG*LWPEMRSME QILELLVLEEFLTITGQ
16219	46587	A	16314	1	1174	WEEKENKEYLKSLEILILMGK QNIPLDGHEADEIPEGLFTPDNF QALLECRINS GEEVLRKR FETT AVNTLFC SKTQQRQMLEICESC IREETLREVRD SHFFSIITDDVV DIAGEEHL PVLVR FVDESHNLR EEFIGFLPYEADAEILAVKFHTM ITEKWGLNMEYCRGQAYIVSS GFSSKMKVVASRLLEKYPQAIY TLCSSCALNMWLAKSVPVMGV SVALGTIEEVCSFFHRSPQLLLE LDNVISVLFQNSKERGKELKEIC HSQWTGRHDAFEILVELLQALV LCLDGINSDTNIRWNNYIAGRA FVL\CSAVSDFDFIVTIVVLKNV LSFTRAFGKNLQGQTS DVFFAA GSLTAVLHSLNEVMENIEVYHE FWFEEATNLAHQ T
16220	46588	A	16315	717	902	GALQSWPCYLPRQC GATVQNF CGVPTCMRKSTWSNLV VFRFP QDPSRCAN**LDCCTACTQ
16221	46589	A	16316	1	374	EHSEPPIGVQIVDYLLRQEKVT DRMDHSKVETETVLSFVDDIIS GAKSPCAMP SQVPDK/QAQEIA DKIYNLFNGYTS GKEQQTAYN TLLDLGSPTLHRVLYHYNQHY ESFGFTWRCEDELGPR
16222	46590	A	16317	2	1293	

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16223	46591	A	16318	219	1912	PHPTRTRSAQSVQYIEKDWGPG EGLEEGGVLGQLVAFDSFTVSF HFVSAGNSPSPDESEERERDPKV LTFPEYITSLSDSGTKHMAAGV RMECHSKGRCPSSCPLCHVTSS PDTPAEPVLLLEVTKAALLNTQS FPCSLMQLLQEATMSSLWCSGT GDVIEDWCRCDDSTAFGGCVPV CSFLSAHRLRLSTVHEPSSTLVV LEWEHSEPPIGVQIVDYLLRQE KVTDRMDHRSKVTGEHLLH LVLIQGDKTCTKKNALPHGFAP GPQYPRAMQEEQGEAAVLL QEAALLPLRVRDIRSCCFRHR ELLFLMLFPFLLWAETVLSFV DDIISGAKSPCAMPSPQDPKQL TTIYFQPLIARFSFSSRKGLLRIM SSHCHGDCDVSTLDSYTVSAN HALPLPARFTLWGVDNTGRRS RPSDVIVYM*ITYFPFPPSSEIAD KIYNLFNGYTSKGKQTAYNL LDLGSPTLHRVLYHYNQHYESF ASF*LKYPLCLIHRKAGLILSQL GDLSSWCNGLLQEPKISLRRSS LKYLGCYSEIKPYGLDWAELS
16224	46592	A	16319	1	2031	
16225	46593	A	16320	1	739	MKRAGSSGGRGECDISGAGRL GLEEAARLSCAVHTSPGGGRRP GQAAGMSAKERPKGKVIKDSV TLLPCFYFVELPILASSVVSLEYF LELTDVFKPVHSGFSCYDRSL MPYIEPTQEAIPFLMLLSLAFAG PAITIMVGEGILYCCLSKRRNG VGLEPNINAGGCNFSFLRRAV RFVGVHVFGLCSTALITDIIQLY TGHQAPYFLTVRTPNYTSLNVS CT*NSYLAEDIRSRSDLTHTHS

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16226	46594	A	16321	48	1359	GDKNQNP RNWPLGEGKGNLSG RKETGRS NSRSHSSRSKSR*QSS SRSRSRSHSRKKRHSSRSRSTY SRSWSRDRMYSRDDRH*YEVIV DCSRHGREYKGREPRHSGSLE RPTEQETSQPKIRKEIVETKGTA RGNCGTTGLLRPKTMMVERSY GPQDRVAVGTWPHPGTERWAS SWDVSSSVRHQSEGVVQGWEH RCTHKSQQEVGACVNFRTPKVI LIYNLYLPVSHQFSKTFMSIVIV QKNLYLHNDFRALNVTHIYRLT IPNTTTCFTATQDEDKQIFHTAA QHRSH TSSYQYLSLTRSHRYEI VFYTRGLGAPFPAGDGHGKFQ RLGKPYSHSVHFVIPQDKTQHIS INTPHKNSETTKQHTCSFAYGL YYYQQKEDNPYAWPQVPAAA EMVSRLAQSRHSQQSILIHFSHQ SYHTDHISTV
16227	46595	A	16322	227	3020	SCIKPRRKEMGRS NSRSHSSRSK SRSQS\SSRSRSHSRKKRYSS\ RSR\SR TYSRSRSDRMYSRDY RRDYRN NRGMR RPYGYRGRG RGV/Y YQGGGGRYHRGGYRPV WNRHRSRSPRR\GRSRSRSPKR RSVSSQRSRSRSRSYRSSRSPR SSSSRSSSPYSKSPVSKRRGSQE KQTKKAEGEPQEE SPLKSKSQE EPKDTFEHDPSESIDFNKSSAT SGDIWPGLSAYDNSPRSPHSPSP IATPPSQSS
16228	46596	B	16323	258	3728	
16229	46597	B	16324	1	435	
16230	46598	A	16325	1120	1209	ASSDNPP*SEPRVSLTIEGQEIDF FLDTGTAFSVLSSCPGWLSSRS VTIRGILGQPVTRYFSHLL
16231	46599	A	16326	1291	1582	IHQSA LCI*LKVCKHTNQQP VSS SGFVNAPIDTLYLATLVGPWRT LCVHTLYLVNLVGMWRTFVSS SGIVNAPISALSKQTTWLYQSA GCGWGQIRE

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16232	46600	A	16327	2	840	APAVATEVLPGAGLTAGVLLW SDPKEPSNPGSSHRVGASDLN PAHPTLLSYTMQKLEELDVL FDRSGHRTKFTNVGRMLLERG RVLLQAADKLTDDAEALARGW ETHLTIVTEALVPTPAFFPLIDK LAAKANTQLAIIT*VLGAWER LEQGRADIVIAPDMHFRSSSEIN SRKLYTLMNVYVAAPDHPHQ EPEPLSEVTRVKYRGIAVADTA RERPVLTVQLLDKQPRLTVSTIE DKRQALLAGLG VATMPYPMVE KDIAEGRRLRVVSPESTS
16233	46601	A	16328	3	923	RFLSDGTIISVDSAGKVQFWD ATGTLVKSHLIANADVQSIABA DFFPGHESRATEALCWAEGQR LFSAGLNGEIMEYDLQALNIKY AMDAFGGPIWSMAASPSGSQL LVGCEDGSVKLFQITPDKIQFER NFDRQKSRLSLSWHPSGTHIA AGSIDYISVFDVKSGSAVHKMI VDRQYMGVSKRKCIWGVAF SDGTIISVDSAGKVQFWD SATG TLVKSHLIANADVQSIABADQR RQFRGGHSRGNSLPFSAGPCAS NSS*EAVGADKTV PASHS*RAH CGPTAQQR*YLG GTDTHLVFRP
16234	46602	A	16329	2	1059	
16235	46603	A	16330	582	1540	
16236	46604	A	16331	1	720	
16237	46605	A	16332	1	477	
16238	46606	A	16333	1	540	
16239	46607	A	16334	1	261	
16240	46608	A	16335	964	1574	LRWCCGSQ LFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIA AVVFIQIFAGEVFWCPVM CVRGLCTPVLTGVP GHGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVTKFPALVG VGGETPR PQLPIGVTTVILLQVLVWKFR NVSM SVWALRVPGLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16241	46609	A	16336	3	87	
16242	46610	A	16337	1	1398	

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16243	46611	A	16338	1596	2205	LRWCCGSQFLFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIAAVVFIQIFAGEVFWCPVM CVRGLCTPVLTVGPNGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVAKFPALVGVGGETPR PQLPIGVTTVILLQVLVWKFR NVSMVWALRVPGLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16244	46612	B	16339	276	442	
16245	46613	A	16340	1	300	
16246	46614	B	16341	1	903	
16247	46615	A	16342	119	889	RQHILESHSRPILCTTWLPLLIQ DPRTLQSAAMLLTQSLFGGIFT RTRMKFGAVTWIGGPPLGDQS PASSCSLLREKDPPTTSGPQTHQ PKEHLTNFKSGVRPRRDACLGP SPLAASPAFLGKGQVPQPLISLC PDPLFPHPNLISLRPNPLCPHPD LVSLCPDPFPAFLEAHKNFQTPE PQQGPPEPPPPGACYKCQKSD HQAKECLQPRIPPKPCPICAGPH WKSDCSTHLAATPRAPGTLAE GSLTDSFSA
16248	46616	B	16343	1	498	
16249	46617	A	16344	3	903	
16250	46618	A	16345	1	684	
16251	46619	A	16346	2	1028	
16252	46620	A	16347	1	338	
16253	46621	A	16348	2	392	
16254	46622	A	16349	790	2184	
16255	46623	A	16350	773	890	
16256	46624	A	16351	467	606	
16257	46625	A	16352	1569	1841	
16258	46626	A	16353	430	980	LLTEDALDDLIPSFLLTGQQTPA FGRRVSGVIEIADGSRRRKAAA LTESNYRVLVGELDDEQMAAL SRLGNDYRPTSAYERGQRYASR LQNEFAGNISALADAENISRKII TRCINTAKLPKSVVALFSPHGE LSARSGDALQKAFTDKEELLKQ QASNLHEQKKAGVIFEAEVIT LLTSVLKTSSASRTSLSSRHQFA PGATVLYKGDKMVLNLDNRSR* RGIT*AAGI*PS*AEKSWGDI*S* RSYHSFNCA

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16259	46627	A	16354	1	343	MKRAPVIPKHTLNTQPVEDTSLSTPAAPMVDSLIRVGVMMARGNAITLPVCGRDVKFTLEV\SGVIVLRRPLGYGQVMNVTRSCLLRTHWMISLLFY*LVNRHRRSVEEYLV
16260	46628	A	16355	1	584	MLRDLLKNVDLKGFEVDVIRLLTKYSNSNGSQSPWMEEQIRDAWGSMLKNNVRETDEVGKGQIRMRTVFEQAIDQRSSTDNEGAPVIPKHTLNTQPVEDTSLSTPAAPMVDSLIRVGVMMARGNAITLPVCGRDVKFTLEV\SGVIVLRRPLGYGQVMNVTRSCLLRTHWMISLLFY*LVNRHRRSVEEYLV
16261	46629	A	16356	62	350	SLPNLDNAAICSSSSSPTRTR*SLSVSAAALRRRLPSAISDHTREVFSTLSRSTSRVNFTSRPHTGKVMALPRAITPTRAINESTIGAAGVDNEV
16262	46630	A	16357	291	502	RLFVHHHVHKHLLGDNRYPIWIMQPSAHP/RSPTTRTR*SLSVSAAALRRRLPSAISMTPTDLRPNAGVC
16263	46631	A	16358	1	378	
16264	46632	A	16359	159	433	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKHLLGDNRYPIWIMQPSAHP/RSPTTRTR*SLSVSAAALRRRLPSAISMTPTDLRPNAGVC
16265	46633	B	16360	1	624	
16266	46634	A	16361	3	299	
16267	46635	A	16362	163	699	
16268	46636	A	16363	795	980	
16269	46637	A	16364	663	734	
16270	46638	A	16365	391	1248	
16271	46639	A	16366	1	1143	
16272	46640	A	16367	1	271	
16273	46641	A	16368	1	493	MSKRRWLTGNGSDRENIRLDL GFLVSDEEKRYKCEDCGKAFNRSSNLTTTHKKIHTGEKPYKCEE CGKAFKRSSILTTTHKRIHTGEKPYKCEE CGKVFKYLSSLSTHKIIH TGEKPYKCEE CGKAFNWSSHL TTHKRIH\MERNPTNVKNVAKA LSTPLPLLNK
16274	46642	A	16369	728	1428	
16275	46643	A	16370	3689	3864	NYKSFFKWS/SQM QSMTKIYRG PLDHPDSPCSNVNDIEGTPPEI STAQPLLHPRPAGSS

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16276	46644	A	16371	2	126	WPLLLLGCLSLTKEWGFQA*LE KHVKRVKFP SHNLVPGRSI
16277	46645	A	16372	728	2207	
16278	46646	C	16373	1	873	
16279	46647	A	16374	1220	2097	
16280	46648	A	16375	73	1438	QDLRLFYLKDTMFSKLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVALERGKGIYLWDVEG RKYFDLSSYS AVNQGHCHPKI VNAL\KSQVGQN*PLTSRAFYN NVLGEYEEY\ITKLF\NYHKVLP MNTGVEAGETA\CKLA\RKWG L/YTVKGIQKYK\AKIVFAAGNF WGRTLSAISSSTDPTS YDGF GPF MPGFDIIPYNDLPALERALQDP NVA AFMVEPIQGEAGVVVPDP GYLMGVRELCTRHQVLFIADEI QTGLARTGRWLAVDYENVRPD IVLLGKALSGGLYPVSAVLCDD DIMLTIKPGEHGSTYGGNPLGC RVAIAAL\EV\LEENLAENADK LGIILRNELMKLP SDVVTA VRG KGLLNAIVIKETKDWD AWKVC LRLRDNGLLAKPTHGDIIRFAPP LVIKEDELRESIEIINKTILSF
16281	46649	A	16376	600	806	

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16282	46650	A	16377	1	2255	EPDVCAKMAGRSMQAARCTD ELSLTNCVVNEKDFQSGQHVI VRTSPNHRYTFTLKTHTPSVVP SIAFSLPQRKWAGLSIGQEIEVS LYTFDKAKQCIGTMTIEIDFLQK KSNDSPYDTDKMAAEFIQQF NNQAYSVGQQLVFSFNEKLFG LLVKDIESMDPSILKGEPATGK RQKIEVGLVVGNSQVAFEKAE NSSLNLIGKAKTKENRQSIINPD WNFEKMGIGGLDKGFSDIFRR AFASRVFPPIVEQMGCKHVK GILLYGPPGCGKTLARQIGKM LNAREPKVVNGPEILNKYVGES EANIRKLFADAEQRRLGANS GLHIIIFDEIDAICKQRGSMAGS TGVHDTVVNQLLSKIDGVEQL NNILVIGMTNRPDLIDEALLRPG RLEVKMEIGLPDEKGRLQILHIH TARMRGHQLLSADVDIKELAV ETKNFSGAELEGLVRAAQSTA MNRHIKASTKVEVDMKAESL QVTRGDFLASLENDIKPAFGTN QEDYASYIMNGIHKWGPVTRV LDDGELLVQQTKNSDRTPLVSV LLEGPPHSGKTALAAKIAEESN FPFIKICSPDKMIGFSETAKCQA MKKIFDDAYKSQSLSCVVDDIE RLLDYVPIGPRFSNLVLQALLV LLKKAAPPQGRKLLIIGTTSRKDV LQEMEMLNAFSTTIHVPNIATG EQLLEALELLGNLKDERTTIA
16283	46651	B	16378	1	2181	
16284	46652	A	16379	1	441	
16285	46653	B	16380	47	482	
16286	46654	A	16381	1	636	MRDPNTKRSRGFGFVTCATVE EVDAAMNARPCVVGRVTEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGGKKR GFAFVTFDNDHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGSGNFGGGRGGGF GGNDNFGRGGNFSGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDFVNYNNQSSHFGPM
16287	46655	A	16382	1	762	
16288	46656	B	16383	59	1042	
16289	46657	B	16384	76	848	
16290	46658	B	16385	179	400	

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16291	46659	A	16386	27	372	VGSLRRPGPPREETRRLRERRRS LEPWAFLLKEAKVG*QPSSLFQ WEGPMGLCSTPLVMNMGDSL TK\HLFQVPPLTITSPGPRTRPH S*YPSPLATGVWAAVWCKQP HFPK
16292	46660	B	16387	134	284	
16293	46661	A	16388	1	2013	
16294	46662	A	16389	313	770	IFGFVAMHGAAPGQAVLELLQ LTGDQSLGLSQRHMAALDALV HLLHGGGLAVLTAGAAPEHET RGIAGLREEQCRNPRCVKRGW AQEKQA*PGQRGGRKSSPFWSF TL/DSASAGPRAAHLHLPDVL LQTLHHGLHRLHPELLQLSHG
16295	46663	A	16390	1	2753	
16296	46664	A	16391	1	1363	
16297	46665	A	16392	26	181	
16298	46666	A	16393	1	867	
16299	46667	A	16394	1	1447	
16300	46668	A	16395	31	659	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFH NISPTIG\ASFMTKTVPCGNELH KFLIWDTAGQERFHSLLPLYLAR GSAAAVIVYDFTEAGFHFPK KWVKRLKELGPE\NIVMAIAG NKCDLSD\REVPPGMLKEY\A ESIGAIVVETSAKNAIN\EELFQ GISRQIPPLDPHENGNG\TIKVE KPTMQASRRCC
16301	46669	A	16396	1	1182	
16302	46670	A	16397	1	513	
16303	46671	A	16398	146	429	TFYTCFSPSVIPFSFSIHTKPYPG HHQSFYMTNVSSNNPTISPLTT RPPFSLISPALGSHAAPNPA*SSP EKHRPFSLHTTPQKFHRPNTSTL F
16304	46672	A	16399	1	435	
16305	46673	A	16400	56	477	ARAAKGESCEGPGVGRCFSFSS YRQTPPCQQLVNVPKTRRTF CKK\CGKH\RPKHVTQYKKGKD SFYA\QGRRRYDRKQSGYGGQT KPIFRKKA\TTK\MLRLLEC EPNCRSKR\MLAIKRC\HFELG GDKKRKGQVIQF
16306	46674	A	16402	183	373	IHGSSNPPTPERETLFWHAENG SALASC*KSGGQAPKRKVRTTL ILKAEILILGMLVLRSHGM

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16307	46675	A	16403	1	881	MPFKCKKQHTFNKTSPEGAII FTHGCLCTSPFNSEHSEHLGNL KLSSWEHLHHRSSQQTLSVRLH VPTPQPVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLLTHKHGCLFRDLVRIQ GK DLLTPVSRILIGNPGCTYKYLNT RLFTVPWPVKGSNIKHTAEIA AACETFLKLNDYLQIETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLLNFMDPQKMPYLKEEP YFGMGKMAVSWHHDENLVDR IQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSQEGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRCDKKSLLTLVRKINLQ GK RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCSRSPWRGLGHL EGNAQKGHLLHGVNKNQGH L*MPPSPLPGGQKGRLVGMLS WVLT*VYKIQH/GT/PAAVEG*D EAFLAVWLGEVGDVDFSLVPSL LWHS*RGCCSIHGIPELELNPVH QIFIM/SASSLPFSPCQNKVPLSG
16308	46676	A	16404	1	459	
16309	46677	A	16405	1	2025	
16310	46678	A	16406	1	816	
16311	46679	A	16407	1	217	
16312	46680	A	16408	3	135	
16313	46681	A	16409	21	218	
16314	46682	A	16410	392	3744	LNYKMLLKNLSPMSMLKAFFS AIPMQPPAQTNLPTAKPNGFQP LLLSQYNACPPPQ*EAG/QVDL CSTIPLNLLPDSLPLTVPTGPLPQ GSVGLVLGRASSAKGITIHTGL INSDSVDEIKLITSAKVPVSILAG ESIAQLLLLPNILNKGDKTRGP GMGSRGEKAAAYWINVSKQRP TCTIHIQGRKFEGLVDTGADV VISSSLWPSSWLKHPTNMGLVG VGKAEVYVGSTFILPCTGLDGGQ KGTIQPYIM
16315	46683	A	16411	1	783	
16316	46684	A	16412	1	1911	

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16317	46685	A	16413	3	1381	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDR SSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIKQDD KAAETCNWRWVSESLRQLRAS VDAFHARASHYNAGECLHQLA ALNSRLNCAQEMARRDSIG EVP PVPWRTVVGSGIAGEAKLDHL RLVSLIGREVNKENS PAATR WL FSFQAGALAGGQIVLQA AKPN AHGQPVVATRNLLNPAGIVAV LKQRPRLVAAAVQAFYLRDPID LRACRVFKTFLPETRIMTSYYAI EWSLWTLVDVLHAENSESAHM SHNSYDPPSDVARHLTHLPMSP IPDYIARFRYRHR SRVRLTARK LSPAFMRCSEIQRYSTMLERG FNGGYCRSTTVRVVTEATRML
16318	46686	A	16414	1	1191	
16319	46687	A	16415	1	1909	
16320	46688	B	16416	1	1791	
16321	46689	A	16417	1	1818	
16322	46690	A	16418	1	1044	
16323	46691	B	16419	1	1140	
16324	46692	A	16420	1	1062	
16325	46693	B	16421	1	972	

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16326	46694	A	16422	1	1758	MDTFLQAERKDYMEAYELIEQ EEQGVKELNRPLTAPSALHPRD EAHLIMVDKLFVLLDSVCQYF IEDFCIDVHHINSRWI/AVCQYFI EDFCIDVHHINSRWIKDLNVRP KTIKTLEENLGNTIQDIGMGKD FLSKTPKAMATKAKIDKWDLIK LNNFCTAKETTIRLPVPNPCGPV AETPLSRVFVLREARKTLKPHQ STCLSKGRDNSIDSWKTAARVL KTAISSTPTIPILKDQTQEWVS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTI FDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLGELGW RREWSSGDRKSLARLSKTGTLG LAALTYKCTRDQWTVYCRVIR EKNLCQDMRWYQRCCQTCRD FYANKMSPATAELVTRSPKGRS KLRLRYQLVFISLKGKPKARKGK ASSGSKLSLLSSSKTVALAGMG RGDEFQMELESEDLTSERDGIL TPTSSNQKKSKAYGSLIRT
16327	46695	A	16423	1	4449	
16328	46696	A	16424	3	3859	QFLPNLDSTVLGENYFDGTYQ MLYLLVKGTIPVEIHTATVIFVS FQLSVATEDDFYTSHNLVKNLA LFLKIPSDKIRISKIRGKSLRRKR SMGFHIEIEIGDPPIQFISNGTTGQ MQLSELQEIAGSLGQAVILGNIS SILGFNISSMSITNPLPSPSDSGW IKVTAQPVERSAFPVHHVAFVS SLLVITQPVAAPGQPFQPPQPSV KATDSGNCVSVGITALTLRAI LKDSNNNQVNLGSGNTTIPFSS CWAN

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16329	46697	A	16425	65	1905	RTSSRKTTNHCSEIKEDTNNWK NIPCSWIGRINIVKMAKLPKPPL VIPRQTGSGVDLQQTPTDLHLR VLTVRRKTNKQKGHPHQNPIC SPSSKTKVLEVLARAFRQEKEI KGIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYI.GIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIKLSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLSF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSSLAVREMQIKT TMRYHLTPVEEVRAEMAKTR RCQNVKGASEEGIRA/HCFVSH *PHCP/LWRATTLMETLKFKPIE VPCKPLEKSVSLLLL
16330	46698	B	16426	1	2348	
16331	46699	A	16427	1	660	MPNFFIDRPIFAWVIAIIMLAGG LAILKLPVAQYPTIAPPAVTISA SYPGADAKTVQDVTQVIEQN MNGIDNLMYMSSNSDSTGTQVQ ITLTFESG/QVQNKQLQAMP/LL PQEVQQQGVSVESKSSSFLMVV GVINTDGTMTQEDISDYVAAN MKDAISRSTSGVDVQLFGSQY AMRIWMNPNELNKVERNSTRQ DVGERDISSGSRKVNKESREDE EVT
16332	46700	A	16428	1	975	

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16333	46701	A	16429	1171	2007	AVDIVQGLVRGWGRQGWLLS GRGIPEGPLLLWGATVGSWRR LLPLTGVCGLPLGAVPVLIS*LL GGAQVQLLREEEAGHEL VQQL VDGALVLLLDGRLPLHVVADE RCCVLQDLPVLVHKDEVRLAR GGTAALRVLLLVLVVDALDLV EQALGAQGLGVLLLEVHSLVV KGLEVRLLILLPPDLVEALLGLP PLLFLGLQSFQDNGDSGDRVLL EALDDLRLGLVAIDAINGTALDH LRRASQGVVQPELLLVFRRHPR QLLLHTFQHTDCGQVRLQDIV
16334	46702	B	16430	1	768	
16335	46703	A	16431	1	2553	
16336	46704	A	16432	3	573	CEMHSVQKNEHDKTPEHSRKR SRPSLLRPVSAPAKKKMKLRGT KDLSIAAVGKYGT/PGIFFL*Q GPPGAEEPPGGV*KLPPLHRTLQ PGAGVWL*APAARQPISGVSS* LPRAP*GGSVPVNSIYLVFSYCF *AMIVLF*NPVY*LT*LI*LLIPM HL*GAIHHLGTLQLVPLPVTSV VSILTRIQWVLE
16337	46705	A	16433	110	1347	LTTATGMELSMGSTTWTS LCK AENACQKEKPHIWLCSISSFL RLKRRRTTTKNTGTKKIASTVA VTIPPITPLPTAFCAPEPAPVLLT SGIPPRLNASENPQLLSGS/SSSD STGTVQITLTFESGTDADIAQVQ VQNKQLQAMPLLPQEVQQQGV SVEKSSSSFLMVVG VINTDGT TQEDISDYVAANMKDAISR TSG VGDVQLFGSQYAMRIWMNPNE LNKFQLTPVDVITA IKAQNAQV AAGQLGGTPPVKGQQLNASIIA QTRLTSTEEFGKILLKVNQDGS RVLLRDVAKIELGGENYDIIAEF NGQPASGLGIK LATGANALDT AAAIRAELAKMEPFFPSGLKIG YPYDTTPV VNSIHEVGKTLVE ANNLVFLAMNLVLQEFPA DVIS TIAGPPSLRSSRVPGL
16338	46706	B	16434	1	2550	
16339	46707	B	16435	1	630	
16340	46708	A	16436	270	455	
16341	46709	A	16437	174	492	GALQPPPCTVGAPFWAGQGWS PLPQLAGRCGGRGT/RGTGAAC GACGPAGVP GGLGLGGPRTRSS RPALLAPGNGGLSTRASGCGGC TESPSSGWPTSAALDFLPGP

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16342	46710	A	16438	3	413	
16343	46711	A	16439	31	507	
16344	46712	A	16440	1	537	
16345	46713	A	16441	152	247	
16346	46714	A	16442	44	208	EEMTSKMYKVIIRKTMKASVC TQVKHPAIASICKAVL*VGPWS GHFKYAGLPTL
16347	46715	A	16443	1	549	
16348	46716	B	16444	376	862	
16349	46717	A	16445	2	1603	TNVSTTIATVVLNALARATKLL PPGHRSPNPATAAASSPPTTLA HCSLRSHHQPLRGEQQPQAI RT TAGRCKALSSCPSFFECGRSSG APPGACGQIFRVSNAKLEPQAR PSSPVTGGPLDLMACRVVAAST REMAMLIAQALQTINYGRDDE NGHTHSACEVHHGGRVPELSV PSFSWRNRNPNPSFIMGSITPTDY TL SKCYLPREDVVLIIYCGVSTN EQPDEEVPRTRFPTVAVSIGFAV RQELEFGVIYHCLE\YRLYTGRR GRGAF CNGQRLRVSGETASGM LPGIQQIHQQEQNLQVGASTEL PCNLHTTRIRVASAPSSAPEDGT ESKTCNFRVTSSKGYCLALPRV PFPLTTGYKHLHKPPTGTHSTY HSMCLLNQPGWLRRTISILFLNN KICWQKKSGREIKIEDYFPEYA NYTPPEDGHL SAHLYILSGLCM WLQHSQGDSILYTDYRRGGEN SFVMVNSVALNGDGCGICSETE AELIEVSHRLNCSREVGEHLNA TGELGEERAHGRQQAACGFTIA
16350	46718	A	16446	1	648	

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16351	46719	A	16447	329	2497	GEGQAVLQGKMGGEKPI\GA GEEKQKEG\GKKKNKE\GSGDG SRAELNPWPEYIYTRLEMYNIL KAEHDSILAEKAEKDSKPIKVT LPDGKQVDAESWKTTTPYQIAC GISQGLADNTVIAKVNNVVD LDRPLEEDCTLELLKFEDEEAQ AVYWHSSAHIMGEGMERVYG GCLCYGPPIENGFFYDMYLEEG GVSSNDFSLEALCKKIIKEKQA FERLEVKKETLLAMFKYNKFK CRILNEKVNTPTTTTVYRCGPLID LCRGPHVRHTGKIKALKIHKNS STYWEGKADMETLQRIYGISFP DPKMLKEWEKFQEEAKNRDHR KIGRDQELYFFHELSPGSCFFLP KGVYIYNALIEFIRSEYRKRGFQ EVVTPNIFNSRLWMTSGHWQH YSENMFSEFEKELFALKPMNC PGHSLMFDHRPRSWRELPLRLA DFGGLHRNELSGALTGLTRVRR FQDDAHIFCAMEQIEDEIKGC LDFLRTVYSVFGFSFKLNLSTRP EKFLGDIEVWDQAEKQLENSL NEFGEKWELNSGDGAIFYGPKI DIQIKDAIGRYHQCATIQDFQL PIRFNLTYVSHDGEDKKRPVIV HRAILGSVERMIAILTENYGGK LAPFWLSPRQVMVVPVGPTCD EYAQNVRRQQFHDAKFMADIDL DPGCTLNKKIRNAQLAQYNFIL VVGEKEKITGTVNIRTRDNKVH
16352	46720	C	16449	189	456	
16353	46721	A	16450	3	1414	
16354	46722	A	16451	95	293	

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16355	46723	A	16452	1	1136	MKKRPGHSLFQFQFLMFRLFSE ARQPLSEEDVASLSWRPLHLPS ADWQRAALSLWTHRTFREVLK EEDVHLTYQDWLHLELEIQPEA MLFQILNGRTSTSGRSMSTFSL SPRLQGAVTETCRLRVPFLSTH* WISTKAQGVMTTQKILIWSLVA AQEMRILFPDCRRW*LTWSCSK TS*CLSATPLPRSTSSLRFSADG SRL*QAGGAWLPAFRDRGSC*C TNGSSSACLRLLSSAAAASRQNS PSLPDASSSSTWSTLR*ETSAPT EVP*HRTSLPTS\QGPPERLSAE QRPLPDGR/RSYWPSARRNA/RL ILT/FCSGVVAEPGACAAALPVEE TLPEAAPGTAEATRPAVCQR VRVGAIGFPFLLLLDGPAVVTS DLK
16356	46724	A	16453	3003	3482	HRPRTRPCPWRNHHLGHRAP L*PQRARR*SPNPPEDGSEDEHL *QLC
16357	46725	A	16454	598	759	KVILGLWTEEAQVGGQGLRAP TPRLLHHVLK*DIKR*AHRPDA VAHACNPNTLG
16358	46726	A	16455	1	1767	
16359	46727	A	16456	2	572	
16360	46728	A	16457	1	726	
16361	46729	A	16458	155	1334	HALGRRGGSQELSAAGAASP SGSERRAPGALPCAWAAALLV LGAPPASRPGFAAGKTMLLK EYRI\CMPLTV\DEYKI\GQLYM ISKHSHEQSDRGEGVEVVQKE PFEDPHHGNGQFTEKRVYLSNK LPSWARAVVPKIFYVTEKAWN YYPYTITEYTCSFLPKF\SIHIET KYEDNKGSNDTIFDNEAKDVE REVCFDIACDEIPERYYKESED PKHFKSEKTGRGQLREGWRDS HQPIMCSYKLTVKSEVWGLQ TRVEQFVHKVVRDILLIGHRQA FAWVDEWYDMTMDDEVREFER ATQEATNKKIGIFPPAISISSL PSSVRSAPSSAPSTPLSTDAPEFL SVPKDRPRKKSAPETLTLPDPE KKATLNLPGMHSSDKPCRPKSE
16362	46730	A	16459	26	355	
16363	46731	A	16460	86	489	
16364	46732	B	16461	1	201	
16365	46733	A	16462	3	367	

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16366	46734	A	16463	58	553	VARSAPPDGAVCAGPGSRRT MAEQSDEAVKYITLLEIQKH HSKSTWLILHHKGVDLT KFL EHPGGEEVLREQA\GGD\ATEN FEDVGHSTDAREMSKTFIIG\EL HPDDRPKLNKPPEP*RRCFKET LIT TTIDSSSSWWTNWVIPASAVA VALMYRLYMAED
16367	46735	A	16464	185	489	
16368	46736	A	16465	134	345	
16369	46737	A	16466	572	1017	
16370	46738	A	16467	911	1013	
16371	46739	A	16468	1	157	FGGNQKGERTGQKGKGERGAK RKDFPGAVCISALGLLAKGCG* SWRPSSAN
16372	46740	A	16469	71	369	SCGLSLIKMTTSQKHRDFVAEP MGEKPVGSLAGIGEVLGKKLE ERGFDAKAYVVLGQFLVLKKDE DLF\REWLDTCG/APNAKQSR DCF*CLREWCDAFL
16373	46741	A	16470	1	831	
16374	46742	A	16471	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITSLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
16375	46743	A	16472	536	717	
16376	46744	A	16473	1	1632	
16377	46745	A	16474	1	651	
16378	46746	A	16475	1	903	GGGGRMKLIDYGLSGYQEESA E\VKAMDFITSTAILPLLFGCLG VFLFRLLQWVRGKAYLRNAV VVITGATSGLGKECAKVFYAA GAKLVLCGRNGGALEELIRELT ASHATKVQTHKPYLVTFDLTDS GAIVAAAAEILQCFGYVDILVN NAGISYRGTIMDTTVVDKRV METNYFGPVALTKALLPSMIKR RQGHIVAIISSIQGKM\SIPFRSGI CQPSKHATQAF\FDCLAVPEME QFEIEVTVISPGYIHTNLSVNAIT ADGSRGVMDDTTTAQ\AEALW RWPRMFLLLWGRRRKM
16379	46747	A	16476	359	1094	
16380	46748	A	16477	1	906	
16381	46749	A	16478	1	371	
16382	46750	A	16479	11	257	
16383	46751	A	16480	2	419	
16384	46752	A	16481	1	2514	

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16385	46753	A	16482	262	822	AGCTRKTRIIDVVYNASNNELV RTKTLVKNCIVLIDSTPYRQWY ESHYALALGRKKGAKLVRVTS L*GLWGGQPDSSLLVMKTLSSS ATEGREMRAF*AEEGQHWGVQ GSRKLPGPAFLP*AHIFVSPFQT PEEEEEILNKKRSKKIQKKYDER KKNAKISSLLEEQQQGKLLGE KADELEVGSRRD
16386	46754	A	16483	2	799	SQWLKLPSPPLPHAGISRYNWD QAP*KTGGPRESPTYHKKREVM KLGRPSCP/NPKIGPPAGIQHSP VCRGG*QVNTRAPEVWTVGNF \SWGLICRCTP*NKDPSIVVLQC HLNNGAWFRTQGPWVEEFCIV ASSDQQQPYR\QWVRSNLCAC PLGPAKKGEPKLDRLKEEIFK QKNDLKKLRKEI*LKRKKNCQI PAVLPGREQFPARGKLSCRA/SR FQGGPQLWAEQDGFCA*EGQK SLEFLSFRKNPRPRKGQIKFLVF VFHPC
16387	46755	A	16484	1	681	
16388	46756	A	16485	287	694	HSSRPAPASAPRRWGLSWSWQ RCWC**TPSPSPRPRPAEG\CLR GRGRGAGGGLPFRPHGSLVHS GAQPPHFPHLPGGARQTCGAPP GSWSCVL/CRPAETGAAAAGSP AAAGSTRKRLGRAQGRGCRVA ALRLSPTH
16389	46757	A	16486	189	381	QGAGSVGRTGQQLLKPGPFLE KLLSLGCT/LSG*ALRARACCSP CCRPGAGCQPQAPVAQAGHP

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16390	46758	A	16487	1	2388	QGRVLVAKPPRPARSTAADSSTP RDMLGLRPPLLALVGLLSLGCV LSQECTKFKVSSCRECIESGPGC TWCQKLNFTGPGDPDSIRCDTR PQLLMRGCAADDIMDPTSLAET QEDHNGGQKQLSPQKVTLYLR PGQAAAFNVTFRRAKGYPIDLY YLMDSLVSMLDDLRNVKKLGG DLLRALNEITESGRIGFGSFVDK TVLPFVNTHPDKLRNPCPNKEK ECQPPFAFRHVLKLTNNSNQFQ TEVGKQLISGNLDAPEGGLDA MMQVAACPEEIGWRNVTRLLV FATDDGFHFAGDGKLGAILTPN DGRCHLEDNLYKRSNEFDYPS VGQLA\HKLAENNIQPIFAVTSR MVKTYEKLTEIIPKSAVGELSE DSSNVVHLIKNAYNK\LSSRVFL DHNALP\DTLKVITYDSFCSNGV THRNQ\PRGDC\DGVQINVPITF QVKVTATECIEQSFVIRALGFT DIVTVQVLPQCECRCDQSRDR SLCHGKGFLECGICRCDTG YIG KNCECQTQGRSSQELEGSCRKD NNSIICSGLGDCVCGQCLCHTS DVP GKLIYGQYCECDTINCERY NGQVCGGPGRGLCF CGKCRCH PGFEGSACQCERTTEGCLNPRR VECSGRGRRCRCNVCECHSGYQ LPLCQECPGCPSPCGKYISCAEC LKFEKGPF GKNC SAACPGLQLS NNPVKGRTCKERDSEGCWWAY
16391	46759	A	16488	353	1205	
16392	46760	A	16489	11	440	FRALTEGDTQLNWNIVSFPVAE ELSHHENLVSFLETVNQPHHQN VSVPSNNVHAPYSSDKEHMCT VVYFDDCMSIHQCKISC\ESMG SHPNIRWVSLMACCECIGPECID YGSKTVKCMNCMF*RRQMQT KAT**NNRYKKLKK

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16393	46761	A	16490	515	1808	KRKQTGEFGFNSFE\WCSDSLC EMNAGMPKGNLNEQDPKHCP SEKCLLSIEDEESQQSILSSLENH SQQSTQPEMHKYGQLVKVELE ENAEDDKTENQIPQRMTRNKA NTMANQSKQILASCTLLSEKDS ESSSPRGRIRLTEDDDPQIHHP KRKVS RVPQPVQVSPSLLQAKE KTQQSLAAIVDSLKLDEIQPYSS ERANPYFEYLHIRKKIEEKRKLL CSVIPQAPQYYDEYVTFNGSYL LDGNPLSKICIPTITPPPSLSDPL KELFRQQEVVRMKLRLQHSIER EKLIVSNEQEVLRVHYRAARTL ANQTLPFSACTVLLDAEVYNVP LDSQSDDSKTSVRDRFNARQF MSWLQDVDDKFDKLKTCLLM RQQHEAAALNAVQRLEWQLK LQELDPATYKSISIYEIQEFYVPL VDVNDDFELTPI
16394	46762	A	16491	1	699	
16395	46763	B	16492	6	5954	
16396	46764	A	16493	22	585	
16397	46765	A	16494	1	837	
16398	46766	A	16495	1	1422	
16399	46767	A	16496	13	189	
16400	46768	A	16497	193	366	GRPGIFKSFCRWW*C*FHMEFI WKSSA*/WSGVWHAGNICLSIS NPEDLRASQFCSSG
16401	46769	A	16498	1	888	
16402	46770	A	16499	3	531	DAWADAWADAWADAWALQS RRRRRTQTLTSSPHDCYRGLQ SLLLILCKMATLKEKLIAPVAEE \EA\TVPNN\RITVLGDGQVGMA CAISILGKSL\ADELALVDVLED KLKGGNDGSFQHGSLFL\QTPK \IVGRIKDYSG\TAQF*RIVVGN WQGVRSARRGKVRNVLVQRN VNVFK
16403	46771	A	16500	2	406	
16404	46772	A	16501	2	394	
16405	46773	A	16502	1	399	
16406	46774	A	16503	74	464	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKDGGKRRKRSRKESY SVVYVKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP G\EL\AKHAVSEGTK\AVTKYHQ
16407	46775	B	16504	84	832	
16408	46776	B	16505	201	829	
16409	46777	A	16506	1	804	

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16410	46778	A	16507	3	615	PECIIGIDILSSGQNP HIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSP IWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQQGPAIFCR* LLSF*ETALG LLLGFGGN*TFDY
16411	46779	C	16508	25	153	
16412	46780	A	16509	1	1317	
16413	46781	A	16510	1	1557	QVPGCIIGIDILSSWQNP HIGSLT GRVRAIMVGKAKWKPLELPLP RKIVNQKQYHILGGTVEISATIK DLKDTEAVTPTTSPFNSPIWPV QKTDGSWRMTVDYCKLNQVV TPIAAAVPDV/VSLLEQINTSPG TWFEWSPK/KALQQVQAAVQA ALPFGPYDPADPMVLEVSAD RDAIWSLWNA AIGESQRRPLGF WSKALLSSADNYSPFERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ HWKCAVHT/IKWKWYIRDWA QAGLEGTS*LYWPRASRYQQG HQDLFILRSDLPSQVFIRDKLME RRNRRTGRTEKARIWEVTDRT VRTWIGEAVAAAAADGVTFSV PVTPTHFRHSYAMHMLYAGIPL KVLQSLMGHK SISSTEYTKVF ALDVAARHRVQFAMPESDAVA MLKQLS
16414	46782	A	16511	41	428	
16415	46783	A	16512	1	1026	

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16416	46784	A	16513	648	1886	LDPEVAWAKWQHSTVKGPKQK QFAFSWQGGQYTFGLPQGYIN SLSLCYNLIPRDLDRFSLPQDIT LVHYIDDIMLTGSSEQELAYTL DLLVRRLCAKGWEINLTEIQEA STSVKFLRVQWCGACQDIPSK MKDKLLHLFPPTTKKKASLFGF RRQCIPHLECGPEQEKAQQAAQ AAVQAAVPLERYDPADPMVL/ V/ELTWLWPLLSAQFASSGDQH *ALHMAPFLGVVSQPLPGGKLIIL DIFHHGKGRVLFSL*TLTPDM GLPILHIMLLPRLPSVNSQNALS TVMPGFTGPGIKGWKWHHSPS PLVIH*QNFCFLFP*HYVLLA*R S*FQRKEPCHQET*Q*FH*TGS* GCQLDTLGSCYF*VNKLRLRELQ CWLG*LTQTIKMKSVYYSITEN CWMKRSPVKRRKILELEEA
16417	46785	A	16514	1	402	
16418	46786	A	16515	1	396	PTRPGRSVHVEIPRRVGSAG HAQWAGPVRVARPQLNAQLE GWLSQVQSTKRPARAIAPHAG YTYCGSCAAHAYKQVDPSITQ RFRYSYYDESGEYRSIEHLDK MGMSIIEQLDPVSFSNYLKKYH
16419	46787	A	16516	2	358	
16420	46788	A	16517	2	769	
16421	46789	A	16518	1	1017	
16422	46790	C	16519	54	294	
16423	46791	A	16520	159	245	GISVSCSMYL*PDRSAGYYGLF KDRKEK
16424	46792	A	16521	1	1227	
16425	46793	A	16522	1	2697	
16426	46794	A	16523	200	696	YGIVTGPSLCAGDKQPKKQEK NPVLVSPEFVDEALCACEEYLS NLAHMDID/IGPGGPAVPQPPRA GPSSSVTPSGPVSPQLGLWA VGRCLGIDPFCLVQPLPLQASR SFTPLFCSGTLEDHCLRDVW ATFLGSWHSIVTKSMDCATKW TAHYPKCVLCGC
16427	46795	B	16524	1	960	
16428	46796	B	16525	1	2183	
16429	46797	A	16526	306	1844	
16430	46798	A	16527	59	189	YNSGCLYGSQCSVCRCL*GVRN QVRSQQAMMAMAILVNKKG G
16431	46799	A	16528	1	2034	
16432	46800	B	16529	1	855	
16433	46801	A	16530	1	834	

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16434	46802	A	16531	65	172	
16435	46803	A	16532	321	429	
16436	46804	A	16533	460	647	
16437	46805	C	16534	529	804	
16438	46806	A	16535	3	433	
16439	46807	A	16536	1	484	
16440	46808	A	16537	511	681	QQGYTPFQSGGRESFLASSSF WL/PGLPWLA*AA* LQALTPSSH SLLSYLCSLLFCHP
16441	46809	A	16538	51	634	PVPTFGLPARHTGAEKRRKNSG GEQLSKNNLYIRGLPPGGTDQD LIKLCQPYGKIVS\TRAFD DKTTIRCKGYGFVDFDSPA AAQKAVASLKANGVQAQMA KLQERDPA\GLSVSSLL\SM YEQUELENMLKPF GHVISTRILRDANGVSRG VGFARMESTEKCEVVIQHF NGKYLKTPPGIPAPSEPL LCKIADG
16442	46810	A	16539	1	759	
16443	46811	A	16540	74	352	
16444	46812	A	16541	1	747	GSAVYLCYKKSVAKTNTVSYK AGLICRYPQEDYESFSLPESVPL FCLPMGATIECWPSNSKYPLPV FSTFVLTGASAEKVYGAAIQFY EPYSEENLTEKQRLLLGLTSAD GKSDSSKTIHTNKCICLLSHWPF FDAFRKFLTFLYR\YSISGAHVL PIEKHISHFMHKVPFPSPQRPRIL VQLSPHDNLILSQPVSSPLPLSG GKFSTLLQNLGPENAVTLLVFA VTEHKILIHSLRPSVLTSVTEAL
16445	46813	A	16542	319	969	
16446	46814	A	16543	131	342	NSDMGLNLGSALTG*PWVAIEF CCFGFFQIIIVFSCLLGWL*VAP HPNLPSSPAEYMDFREAEQEGTD VIY
16447	46815	A	16544	1	1086	
16448	46816	A	16545	469	759	
16449	46817	A	16546	3	598	
16450	46818	A	16547	227	604	
16451	46819	A	16548	416	1814	
16452	46820	A	16549	763	867	
16453	46821	A	16550	1	1419	

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16454	46822	A	16551	915	3125	SLAGMRLTGTVSGGEVRV/TAK AGARVGPPPELVGRPLEGECWY FSGVSRTOAQQLLSPPNEPGA FLIRPSESSLGGYSLSVRAQAKV CHYRVSMADGSLYLQKGRLF PGLEELLTYKANWKLIQNPLL QPCMPQKAPRQDVWERPHSEF ALGRKLGEGYFGEVWEGWL GSLPVAIKVIKSANMKLTDLAK EIQTLKGLRHERLIRLHAVCSG GEPVYIVTELMRKGNLQAFGLT PEGRALRLPLLGFACQVAEGM SYLEEQRVVHRDLAARNVLVD DGLACKVADFGRLRLKDDIY SPSSSSKIPVKWTAPEAANYRV FSQKSDVWSFGVLLHEVFTYG QCPYEGMTNHETLQQIMRGWF FGCISRSEAVRRLQAEGNATGA FLIRVSEKPSADYVLSVRDTQA VRHYKIWRRAGGRLHLNEAVS FLSLPELVNYHRAQSLSHGLRL AAPCRKHEPEPLPHWDDWERP REEFTLCRKLGSFYFGEVFEGFL WKDRVQVAIKVISRDNLLHQQ MLQSEIQAMKKLRHKHILALY AVVSVGDPVYIITELMAKGSLL ELLRDSDEKVLPSSELLDIAWQ VAEGMCYLESQNYIHRDLAAR NILVGENTLCKVGDFGLARLIK EDVYLSHDHNIPYKWTAPALS RGHYSTKSDVWSFGILLHEMFS RGQVPYPGMSNHEAFLRVDAG
16455	46823	A	16552	1	990	
16456	46824	A	16553	1	2847	MTAREHSPRHGARARAMQRAS TIDVAADMLGLSLAGEPHRACT GLQTTGYPLADPSG*TRK*GRG MSALFL*TASAGA*LH*FSSLVA GAPPG*CGNVQVF/WLAHAQA MGTNNPIFLSSIAFFQDSLINQM TQVKLSVYDVKDRSQGTVKSA ESDRVGNITVIGWQMEEKSDQ RPPVTRSVDTVNGRLHPPAPTV MHSLSHRHSKKNSNFRALALM VLPVDESLTEALGIRSKYASLR KDTLLKSVFGGAICR
16457	46825	A	16554	1	327	
16458	46826	A	16555	259	3109	
16459	46827	A	16556	262	3159	
16460	46828	A	16557	1	1398	
16461	46829	A	16558	123	393	
16462	46830	A	16559	245	424	

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16463	46831	A	16560	1	531	
16464	46832	A	16561	2348	2775	
16465	46833	A	16562	373	555	LRIQVTFDDVAVEFTPEEWALL DTTQKYL YRDVMLAENYMNLA SVGKSNITLLGMVACTCS
16466	46834	A	16563	165	457	
16467	46835	A	16564	310	349	K*TMK*EMGKFK*FY/IYLEQED YANANALLSPAPALPKEKRTDS NGRVYFVNHNTRITQWEDPRS QGQLNEKPLPEGWEMRFTVDG IPYFVDHNRRTTTYIDPWSTRP
16468	46836	A	16565	1	2217	
16469	46837	A	16566	1402	1860	
16470	46838	A	16567	461	696	KRMCFCSTLSSARSSGSMYMSC RICCSMMPPFSSVFRSISRYSR AAFWAWTETRLCWQAAMPRQ QPPGLLHQWTTSP
16471	46839	A	16568	1	601	
16472	46840	A	16569	468	1213	
16473	46841	A	16570	2	365	EGCFQKIKLDHILSPPPMPFWK CSNPDVAFGPGKSLKYKRQLS* DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMNCPIK
16474	46842	C	16571	220	408	
16475	46843	A	16572	840	1091	QSLQHDVTL*VPVLLSYPEPAPS GHGLLRGSAQIAL*TIADPAGT YLKTREPTLGCQTVPLPAPHLS VDTVCRCLSSSVWPQ
16476	46844	A	16573	1	1356	
16477	46845	B	16574	1	1084	
16478	46846	A	16575	2	526	QPRGKKFSKNKPRKQNFPTPKH MRVVLPPF/PPLKFFIFPKGLKFL EGGCPNISPPQKKGSLPKIPR*V LIRPPIRKKLFPCTARVKLGPPQ GSFKTAAPSSSSP*SADPVYLAG K/PRQSSSPGGTGGLNPPPRRLQ PQHPGPSWHSSSRGPGGHPR RESAERSRCASGNPGGQ
16479	46847	A	16576	36	167	RQLFENTQSDETKQEQNKQNK K*STATESRKVPQTGKSKSYWP
16480	46848	A	16577	171	527	
16481	46849	B	16578	1	471	
16482	46850	A	16579	1	294	
16483	46851	A	16580	185	299	GLQYLKGKSGLKVKRGKVV*S ACCKKKGAALGTVASPL
16484	46852	A	16581	3	414	

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16485	46853	A	16582	462	928	WGVPGLPGRHLLPLPSQPPPSW LSILYVSWAALTCFLNSGESTA AKFFCPNLSAISYHTEAIPTTWQ GVHLSWAFNGAPDIFSGPGGL L*PA/PQP/DLALGALFGAGVLV TTVVAGGITTLLLFIQHHTTQEI H*QIVQWIKTTL*ILATVSYVIG
16486	46854	A	16583	1	654	
16487	46855	A	16584	66	323	RVSLEIHVIQKRRPHHLSLLSFW TRMKTFRRRK/WGEAEESATDT TSETNKVGTGVFVLSLVWPVL VRNLAPGCVVLGNICKHFVVC
16488	46856	A	16585	1	1530	
16489	46857	A	16586	615	873	FVFLWSLMMVMYRWGFGVAV LSVC*FSF*QSGPSAAGLLEFAG GPFQTPFAWVSVEAAEQRIML NSKRCCVIVPLVVSSQRGTRP
16490	46858	A	16587	286	626	PCKLFPCCNTCYSRV*DFFRVA GKRSLANNYTSWVNTSMLVPR VAFACGFPLQQAAVLCVHLLG SPILGAADSSVTPPFCWMANAH ICGLQLQNTLSFAEPIYLGQEHA QLS
16491	46859	A	16588	226	489	PYLSVIFFFDYGINEEQCQRPIQ GDGQNFHRHNGWIKINPSCISF AIFFPFGAEKNMWSTPVTEAFN LLST*AF*LFGYKCTLVISS
16492	46860	A	16589	1	1344	
16493	46861	A	16590	1	257	
16494	46862	A	16591	73	374	ESETEHKRPGKHSPKRSCNMCG QWAFHASLTVSYCLLTWCNET CSGDGCEGMRIDIDPPVSQTR FFITLL*LC\FPGAGPQPA YFCTQ TQCHVETPRVSQ
16495	46863	A	16592	1	666	
16496	46864	A	16593	95	1840	
16497	46865	A	16594	1740	2026	
16498	46866	A	16595	39	487	SRLDPRVRLLFQFCETRPGLC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTPKSPVFIQVGG DLVSQTEEKLLQKPKELFSAC AQSVHEYLRGEPFHEYLD SMFF DRFLQWKWLE/RVCACQVRAT GK/MYACSRLEKKRIQKRK
16499	46867	A	16596	1	591	

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16500	46868	A	16597	71	1994	EQEQRGRQGGLLAPPAPAAAA AARAAAAAAAAPQALTAPPAG SVADRRLSMELENIVANTVLLK AREGGGGKRKGKSKKWKEILK FPHISQCE\SLRRTIDRDYCRVC DKQPIGRLLFRQFCETR\PGLEC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTTPKSPVFIAQVGQ DLVSQTEEKLLQKPKCKELFSAC AQSVHEYLRGEPFHEYLD SMFF DRFLQWKWLERQPVTKNTRQ YRVLGKGGFGEVCACQVRATG KMYACKRLEKKRIKKRKGESM ALNEKQILEK VNSQFVNLAY AYETKDALCLVLTIMNGGDLK FHIYNMGNPGFEEERALFYAAE ILCGLEDLHRENTVYRDLKPEN ILLDDYGHIRISDLGLAVKIPEG DLIRGRVGTVG YMAPEVLNNQ RYGLSPDYWGLGCLYEMIEGQ SPFRGRKEKVKREEVDRRVLET EEVYSHKFSEEAKSICKMLLTK DAKQRLGCQEEGAAEVKRHPF FRNMNFKRLEAGMLDPPFVPD PRAVYCKDVL DIEQFSTVKGVN LDHTDDDFYSKFSTGSVSIPWQ NEMIETECFKELNVFGPNGTLP PDLNRNHPPEPPKGLLQRLFK RQHQNNSKSSPSKTSFNHHINS
16501	46869	A	16598	1	963	
16502	46870	A	16599	192	609	RPKGARELRLHPGPRYGRTPQ NCPWARPGCLHEAL*GWKICL HCKCPQEEHMTVMPLMEKT ISKLMFDFQRNSTSDDDSGCAL EEYAWVPPGLKPEQVHQYYSC LPEEKVPYVNSPGEKLRIKQLL HQLPPHDNEV
16503	46871	A	16600	1	915	
16504	46872	B	16601	30	820	
16505	46873	A	16602	99	248	RLEKHINCSRVI*SWAASPLTA AAYRVTLNPPGTFLGVAKVG QYTFT
16506	46874	A	16603	1	717	
16507	46875	A	16604	271	556	TAACLQSHHFKSSGQLSFERKW PKVGTITRSIASLLSGPVFGLHH LAFSAHVPREGPTTPWNYFPRV AAP/RRWTPGEHARTTTGLGAA PCVLLWA
16508	46876	C	16605	135	341	
16509	46877	A	16606	125	226	
16510	46878	A	16607	194	547	

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16511	46879	A	16608	2073	2338	
16512	46880	A	16609	1127	1282	
16513	46881	C	16610	1	2094	
16514	46882	A	16611	523	706	QHPLPNPCCHQPFHLCLRR*TL HCLRQQ*WPPLRQLPGKIMLIL LRSHQPHPCLLLDLQLD
16515	46883	B	16612	190	805	
16516	46884	B	16613	90	2812	
16517	46885	A	16614	44	216	RCRRRLIPHPRRLSPVVIRRIQVP Q/VQPGAGPSRPGHTRDPIGAA AAHCPCPGDSGAH
16518	46886	A	16615	1	1107	MTEEPLQALVLSAVLLYQEAY VRRSLTALGLDTFANFAHFSEM QPLSDAPCGLVTGVTRPLVAYS VEVGFTIICGLSLASGNISGWC QLYLLLTCRRGAATLWDSGM GGGRQSSRQTSVPRWTLDSKCI PGPKLTTRPQMDTKALGGQQA HVEHQTHEDIRPQVDTQAPGG HKALGEQQDPVGHQASVGYS QVPQDSLQALAGQATPEIPLG LQLHTVLVQEIQELIEAQTRAP GPCAEVRALPAPAAEPEPAWEE APPERALELEGAPAKDQTNEEL PEITA/PYC/EPLALTLELKAWLE RKVGGRG\DQHSPSQQLPCCP*S WARWQTCRQRAGHLAWPPVP RCREASLIH*NHSPAAAGPFILL
16519	46887	A	16616	1	792	
16520	46888	A	16617	1	963	
16521	46889	A	16618	1	378	
16522	46890	A	16619	1	494	MKPRTLAVSVTVLKGGVSRVC SFWCSDVFRVSSFVWVRGLAD SGVKLRTFVSVTPLKAARLEL FVPPGGFVVS LASGVKLQPFV SVTAHKGSDPKSEKQDQLLQ RGKEQSYHTGEGHPSRLP/PAG SGSLLLF SYLAPPTSC*LVQPSG LF*QGADWCIYNP
16523	46891	A	16620	137	262	

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16524	46892	A	16621	1	2786	EVSLREATQQRKLRRFSELRGKL VARGFWDIVAITAADEKQELA YNQQLSEKLKRKELPLGVQYH VFVDPAGAKIGNGGSTLCALQC LEKLYGDKWNSFTILLHSDEW KKKVSESYVITIERLEDDLPIKE KELTELNRNIFGSDEAFSKVNLN YRTENGLSLLHLCCICGGKKSH IRTLMLKG\LRPSRLTRNGFTAL HLAVYKDNAELITSLHSGADI QQVGYGGLTALHIATIAGHLEA ADVLLQHGANVN
16525	46893	A	16622	174	722	
16526	46894	A	16623	1	1554	
16527	46895	A	16624	1	843	
16528	46896	A	16625	2	745	ECWDGEHDIETPYGLLHVVRIG SPKGNRPAILTYHDVGLNHLKLC FNTFFNFEDMQEITKHFVVCHV DAPGQQVGASQFPQGYQFPSM EQLAAMLPSVVQHFGFK\YVIGI GVGAGAYVLAKFALIFPDVEG LVLVNIDPNGKGWIDWAATKL SGLTSTLPDVLVSHLFSQEELVN NTELVSQRQQIGNVVNQANL QLFWNMYNSRRDLINRPGTV PNAKTLRCPVMLVVGDNAPAE DGVVECNK
16529	46897	A	16626	3	949	
16530	46898	A	16627	1	633	
16531	46899	A	16628	2	1324	
16532	46900	A	16631	1	591	
16533	46901	A	16632	138	832	
16534	46902	A	16633	55	586	IFVHPTPAASTMPSKFDPNKIKV VYLRCTGGEVGATSALAPKIGP LGLSPKKVGGDDIAKATGDWKG LRITVKLTIQNRQAQIEVPSAS ALIIKALK\EPDRDRKKQKNIKH SGNITFDEIVNIARQMRHSLAR E\SGTIKEILGTAQSVGCNVVG RHPHDIIDDINS GAVECPAS
16535	46903	A	16634	1	735	
16536	46904	A	16636	3	346	
16537	46905	A	16637	57	649	GPRRAYGGRMAGGGDLSTRR LNECISPVANEMNHLPAHSHDL QRMFTEDQGVDDRLLYDIVFK HFQRINKVEISNAIKKTFPFLEG LRDRDLITNKMFEDESQDSCRNL VPVQRVVYNVLSELEKTFNLPV LEALFSDVNMQEYPDLIHIYKG FENVIHDKLPLQESEEEKEREERS GLQLSLEQGTGENSFRSLTWPP

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16538	46906	A	16638	1	1665	
16539	46907	A	16639	348	1534	
16540	46908	A	16640	1	627	
16541	46909	A	16641	1	1343	
16542	46910	A	16642	76	479	IRAVSRSRERPGSRRLQAC*G GGAFPGP*SAEISRLVRSHNLGG YSCT/EGGGGCRKGSCLLQHSC LLWHSCLLPASKNTVCSKDLG GCSCTQESRAPACSWSPRTQGG SASSHDLGSCRNAWETPSRQLG RSW
16543	46911	A	16643	130	675	
16544	46912	C	16644	118	420	
16545	46913	A	16645	1	987	
16546	46914	A	16646	1	494	
16547	46915	A	16647	360	1510	
16548	46916	A	16648	375	2187	VTAAAAATAMAESGESGGPPG SQDSAAGAEGAGAPAAAASAE PKIMKVTVKTPKEKEEFAVPEN SSVQQFKEEISKRFKSHTDQLV LIFA\GKILKDQDTLSQHGIHDG LTVHLVIKTQNRPDHSAQQTN TAGSNVTTSSTPNSNSTSGSATS NPFGLGGLGGLAGLSSLGLNTT NFSELQSQMQRQLLSNPEMMV QIMENPFVQSMLSNPDLMRQLI MANPQMQLIQRNPEISHMLN NPDIMRQTLELARNPAMMQEM MRNQDRALSNLESIPGGYNALR RMYTDIQEPMLSAAQEFGGN PFASLVSNSTSSGEGSQPSRTENR DPLPNPWAPQTSQSSSASSGTA STVGTTGSGTSGQSTTAP NLVPGVGASMFNTPGMQSLLQ QITENPQLMQNMLSAPYMRSM MQSLSQNPDLAAQMMLNNPLF AGNPQLQEQMRQQLPTFLQQM QNPDTLSAMSNPRAMQALLQI QQGLQTLATEAPGLIPGFTPGL GALGSTGGSSGTNGSNATPSEN TSPTAGTTEPGHQQFIQQMLQA LAGVNPQLQNPEVRFQQQLEQ LSAMGFLNREANLQALIATGG DINAAIERLLGSQHSSISVS
16549	46917	A	16649	269	440	
16550	46918	A	16650	469	746	RLNLPGLPCAGTSILFAVLMEAI GVSCIRQAGGGHVASHIY*GLM /PALAL*DTEPRNPSALPETCLC GSGPQSQMGHQTSHELLSSPGTG LSF
16551	46919	A	16651	1	1026	

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16552	46920	A	16652	719	906	
16553	46921	B	16653	1	1971	
16554	46922	A	16654	200	239	
16555	46923	A	16655	109	177	
16556	46924	A	16656	1	1542	
16557	46925	A	16657	1	453	
16558	46926	A	16658	2	487	
16559	46927	A	16659	1	1260	MEDAEGTVTLLAVTLVARDLN CIQPQTGPSSGGIPEESIVIIGDVSS MHVIAPEDLPVGQDVEVEDSDI DDPDPVRALPLQIHACGRVGFE AHDDWSEGGDPAADTLIDPSQ DARYLKCEGMQAPHNSNPVAQ KTEISYHIWIARIPREKSGKVTG TLCDLLKDLTVIHS LIPKQGCS D GLGVLVQGT FQPQGN TDTCTC QVSAVEGKGEGLMQLASLSRR VTIWAYGDSQERDLKTQLEKIT AIKDMKEMQEKEYRIMEKAHS RQRKQHHKGPERKEQA AIFAV LQPPLVITRQTGSGVDPQKTPA DLQKRCRTVRRKTSQQKAVAS TLTKRITTQKLNAKDHNSSPTR EQNCTENEFDELTEVGFRRWVI TNSSELKEHVL TQCKEAKNFDK RLEELLIQITSLEKNISDL MEL *S FALSFCVVILFVNVDATAFCWL VLLTVRHLFCRSAGVFWGSTP DPVCLVITSGGCRTAKIAACSFL SGPLWCCFLCLEWAFSII LYSFS CISFMSLIAVIFSNWVLRSL S
16560	46928	A	16660	1	799	
16561	46929	A	16661	1	969	MHVIAPEDLPVGQDVEVEDNDI DDPGQA KKTMEEQWTLVSLLS TSQQQGPVPPGSTASSATDKLS RWELTLLYSTTLFLAREAFRA CLSGGTQRDWSQTLNLLWLT V PLGVFWSLFLGWIWLQLLEVPD PNVVPHYATGVVLFGLSAVVE LLGEPFWVLAQA HMFVKLKVI AESLSVILKSVLTAFLVLWLP H WGLYIFSLAQLFYTTVLGLCYV IYFTKLLGSPSTKLQTL PVSRI T DLLPNITRNGAFINWEEAKLAW GFFKQFFLKQILTEGGRYVGG HFLNVLNFGDQGVYDIMNNLG SLVARLIFQPIEESFIYS
16562	46930	A	16662	1	1665	

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16563	46931	A	16663	1	1521	MDVSSPPCVDGVSILPPLLIPRQ TGSGVDLQQNPTDLQLRVLT KRKTNKQKGHPHQNSICTSPSS KTKEYTFFSVQHHHTYSKIDHIV GSKAVLSKRKTIEIITNCLPDHS AIKLELRKIKLTQNHKTTWKQN NLLLNDYWVHNKMKAEIKMFF ETNKNKDTTYKNLWDTVKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTQVKIHES RSWFFEKINKIDRPLAGLIKKR EKSQKDAIKNDKLDITDPTET QTTIRDYHKHLYAIKLENLEEM DKFLDTYTLPRNLNQESLNRPTG SEIEAIINSLPTKKKYRTRRIHSR ILSEVQGGAVLEVLAIRQEK EIKCIQLGKEEVKLSLFADDMIV YLENPTVSAQNLLKLISNFSKVS RYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKED/N KWKSIPCPRIGRINIM
16564	46932	A	16664	2	2315	
16565	46933	A	16665	1	912	
16566	46934	A	16666	1	912	
16567	46935	B	16667	199	619	
16568	46936	B	16668	64	1815	
16569	46937	A	16669	1	239	
16570	46938	A	16670	1	242	FREDGKTACGHEPSPVLLGLRL GLQPWG*GWGCSHGAGSAPDL VAGSAHSCGLWLPGLHHPA QCLPALLCGHLCLSVQDQONG LLGR
16571	46939	A	16671	58	505	ASSRTRPSCTLARGRRWFPQPL SGRQRQRGGRRGSRVG/YGTA QNSTTLTSPAASASEATVSGHW PSTAPCCV\PAGAGSATMWRSP A*AACGSAAWTSTWSRRSPGP GAAAGYGGVRTFCQPAGLTR/L ANRSTAGLCGWGLTLSCRETEL
16572	46940	A	16672	242	2952	
16573	46941	B	16673	474	2690	
16574	46942	A	16674	97	451	
16575	46943	A	16675	667	893	

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16576	46944	A	16676	3	639	RIRVHPTPAAFTMPPKFDPNKIG VGYLRCTGGEVGSALAPKIG PLGLSPKKVGDDIAKATGDWK GLRITVKLTIHNRQAQIEVAPSA SALIHKALKEPPRDRKKLKILKL SGNITFDENGNICSTDMR/HRSL SRELSGTTKEILGTAQSVGCNV DGRHPHDIIIDDINSENDKQPRKS KMRTSFSPQIPGHEHFHYLLLL QHVHCQLALTL
16577	46945	A	16677	350	984	VYLEVAPGGESRLPLSALGPQR IGPPGSCLPKKS WNDICQRQP G\DWKGP*GLQVKLTHSRTGQ APDCTRVP/VLPSCP*FIQSPSRE PPKRPEKKPEKTFKHQLGIFTFL NEICSTLLRQMR\HRSLSPEKLS\ GTPLKEIPGGLPQSSWAGNV*W AAIPHD\IDDIIQQWVLWKCPAV SDIFIVTVGVKGGPPSVFTEISW EVLEMVTGGVG
16578	46946	A	16678	252	964	
16579	46947	A	16679	1	182	
16580	46948	A	16680	275	639	
16581	46949	A	16681	376	418	
16582	46950	A	16682	1135	1591	
16583	46951	A	16683	3	420	AAKEIEVGGGRKAIKSFQKIQV RLVRELEKKFSGKHVVFIQRR ILPKPTRKSRTKNKQKRPRRTL TAVHDAILEDLVFPSEIVGKRIR VKLDGSRLIKVHLDKAQQNNV EHKVETFSGVYKKLTGKDVNF EFPEFQL
16584	46952	A	16684	1	879	
16585	46953	A	16685	2	691	HEEKAMFSSSAKIVKPNGEKP DEFESGHLPLGFLELEVMNSDL KASAQGT*IITAS*RKLKVGGS ESLFH*SFVPRSLKLTFFQKNP KVRA*LRRIGKKKVPVGKAMS VLYPPSEGEFLPLSPTSEKARTK K*AKSRPPGARTLDKLVHDAH PLRDFGPFPSGNFWAKRIPRSL DGQPGSIKVPFWTKAQQNQCW NTRVETFFLVSYKIKLTGQGC*F LEFPRVFNC

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16586	46954	A	16686	1	452	TLLVIPRKMRS AVELQQTSTD QLRDLTVRKKTNRKATASTS QKGHLHQNPICRSPTSKTKEVG FRRSVITNFSELKEDVRTYHKE AKNLENRLDEWLTRINSVEKTL NDLKELKTMDRLHDACTSFN RRFDQVEERVTVTEDQIN*QTE SNSINFTKRSSTPKPHLARSPTSK TKEVGFRRSVITNFSELKEDVR TYHKEAKNLENRLDEWLTRINS VEKTLNDLKELKTMDRLHDA CTSFNRRFDQVEERVTVTEDQI
16587	46955	A	16687	1	618	
16588	46956	A	16688	280	353	SCNSIFARSVRACCS*VASSSFC C
16589	46957	A	16689	1	459	IKYSSPMKSTFVDPVDPVAVAV IYCLAAGLVIRIPFFQLVPLKEE KMVLLNMDYYEMASLSLVTH RNEAPFSGRVRSSLPATEQSWM ENDFDKLTEVGFRRSVITNFSEL KEHVLTHHKEAKNLEKRLDKW QTRINSVEKTLNDLMELKTMA* EEKMVLLNMDYYEMASLSLV HRNEAPFSGRVRSSLPATEQSW MENDFDKLTEVGFRRSVITNFS ELKEHVLTHHKEAKNLEKRLD KWQTRINSVEKTLNDLMELKT
16590	46958	A	16690	2	403	LALSGEMTLVLFMLLAGGWVT HDKPEMPRAATSGGTRKGKT KAALKDLIATWKEVCVSSPATE QSWMENDFDELTEVGFRRSVIT NFFKLKEYVLTHHKEAKNLEK MLDEWLTRINSVEKTLNDLME LKNMA*ELTEVGFRRSVITNFF KLKEYVLTHHKEAKNLEKMLD EWLTRINSVEKTLNDLMELKN
16591	46959	A	16691	1	676	
16592	46960	A	16692	1	1965	
16593	46961	C	16693	1	3075	
16594	46962	A	16694	78	152	CAAGFGLPVIFY*GFLHRC SLGIL V
16595	46963	B	16695	1	904	

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16596	46964	A	16696	1	2026	EQEASYGRDAFAKAIYERLFC WIVTRINDIIEVKNYDTTIHGKN TVIGVLDIYGFEIFDNNSEQFCI NYCNEKLQQLFIQLVLKQEQEE YQREGIPWKHIDYFNNQIIVDL VEQQHKGIIAILDDACMNVGK VTDEMFLALNSKLGKHAHFSS RKLCSADKILEFDRDFRIRHYA GDVVYSVIGFIDY\NKDTLFQDF KRLMYNSSNPVLKNMWPEGKL SITEVTKRPLTAATLFKNSMIAL VDNLASKEPYVRCIKPNDKKS PQIFDDERCRHQVEYLGLLENV RVRRAGFAFRQTYEKFHRYK MISEFTWPNHDLPSDKEAVKKL IERCGFQDDVAYGKTKIFIRTPR TLFTLEELRAQMLIRIVLFLQKV WRGTLARMRYKRTKAALTIIR YYRRYKVKSYIHEVARRFHGV KTMRDYGKHVKWSPPKVLRR FEEALQTIFNRWRASQLIKSIPA SDLPQVRAKVA AVEMLKGQRA DLGLQRAWEGNYLASKPDTPQ TSGTFVPVANELKRKDKYMN LFSCHVRKVNRFSKVEDRAIFV TDRHLYKMDPTKQYKVMKTIP LLQLTCLN\VSNGKDQLVVFHT KDNKDLIVCLFSKQPTHESTRIGE LVG\VLVNHFKSEKRHLQV\NV TNPVQCSLHG\KKCTVSVETRL NQPQPDFTKNRSGFILSVPGN
16597	46965	A	16697	1	1665	
16598	46966	A	16698	1727	1908	FLFFYIC*RELYFQLCGQFWNK CNVLLRRMYILLIWGGFEFCRYQ LGLLGAELNSVPGYHC
16599	46967	A	16699	1	384	
16600	46968	A	16700	1	636	
16601	46969	A	16701	1744	2283	
16602	46970	A	16702	194	368	
16603	46971	C	16703	62	205	
16604	46972	B	16704	1	1257	
16605	46973	A	16705	1	1077	

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16606	46974	A	16706	1213	1228	AQN*QTQRTSTPKPHLASSPSTK TKENDFDELREEGFRRSVITNFS KLKEDVRTHRKEAKNLEKRLD EWLTRINSVEKTLNDLMELKT MAQELRDTYTSFSSRFDQVEER VSVIEDQMNDMKREEKFREL/K RVQRNEQSLQEIWVYVKRTNL RLIGVPEKIQTIREYYKHLYAN KLENLEEMDKFLDTYTCPRLN QEEVESLNRPVGTGSEIAIINSLP TKKVQDQADSQPNSTRVFKTV CISSLGHTTASADTQDVCQLPV TSLLEQGLSSKSAGFLDYAVQR LWLLGTEPL
16607	46975	A	16707	33	263	
16608	46976	A	16708	204	1756	
16609	46977	A	16709	760	821	TMRTHGHRKGNI*QR/R**PEST KNSNKFTRKNQTPSKREWMK LETILSKLSQGQKSKHRMFSLI SGN*TMRTHGHRKGNIHWGL LWG
16610	46978	A	16710	1	879	
16611	46979	A	16711	311	514	KNAHHQWPSKKCKSKLQ*DTIS HQLQWQSLKSQETTGTMRMKME TITLSKLSQGQKSKHCMFSLIGG N
16612	46980	A	16712	24	1268	AGLCAARARMRLFRWLLKQPV PKQIERYSRFSPLSIKQFLDFG RDNACEKTSYMFRLKELPVRL ANTMREVNLLPDNLLNRPSVG LVQSWDMQSFLELL*YENKSPE DPQVLNDFLQVLIKVRDRHND VVPTMAQGVIEYKEKFGFDPFI STNIQYFLDRFYTNRISFRMLIN QHTLLFGGDTNPVHPKHIGSIDP TCNVADVVKDAYETAKMLCE QYYLVAPELEVEEFNAKAPDKP IQVVYVPSHLFHLFELFKNSM RATVELYEDRKEGYPAVKTLV TLGKEDLSIKISDLGGGVPLRKI DRLFNMYSTAPRPSLEPTRAA PLAGFGYGLPISRLYARYFQGD LKLYSMEGVGTDAVIYLKALSS ESFERLPVFNKSAWRHYKTTPE ADDWSNPSSEPRDASKYKAKQ
16613	46981	A	16713	175	465	
16614	46982	A	16714	240	381	FFLSFPLCQSS*NQNLLPW/ICA KVCSFTPEVSKTTNPLEGRNSG HI
16615	46983	A	16715	268	1524	
16616	46984	A	16716	1	378	

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16617	46985	A	16717	708	987	IQLPGHRSQGGVAGASHTDARQ QDPGNHSHDFVRHSHSLPCLER QDRRSAGHNGSATVPGTEACG RAYKAPAGHYHSGAGQSLPAA SHRSFSSP
16618	46986	A	16718	1	2052	
16619	46987	B	16719	1	606	
16620	46988	A	16720	1	541	QHQRKQKRQLRAQQNLSWEEI AKEYQNEEDSLGGSPVVVCDI NKEMLKVGKQKALAQGYRAG LAWVLGDAEELPFDDDKFDIYT IAFGIRNVTHIDQALQEAHRVL KPGGRFLCLEFSQVNNPLISRLY DLYSFRVIPVLGEVIAGDWKSY QYLVE\SIRRFPSQEKFKD\MIE DAGF\HKVTYESLTSG\VAIHSG FKL*FLCLEFSQVNNPLISRLYD LYSFQGHPCPRGRHRWRLEVLS VPCREVSEGFRRLRKEFKDHDRR CRLSTR
16621	46989	A	16721	526	933	
16622	46990	A	16722	191	468	
16623	46991	A	16723	2	677	GKVHVLERRGFHRTEMHLQKI LLLVLSSSSSDP/STLSVSALV RMFSSADE*SVSEASSSEPSSSFS RRSSCSFGSEPSFASFSSFPDL ASLSSVLLFRAFS\SSHVM*WL PSSS*VGS/STSARAQLPSYVPSF SVKTKSGLKSALRFFPKAFCL PSTMGPSSSSSPESDSALHRHLV ILDVWLQIKPRVRKPCCRRSHF RKRAQPAVRPLTFRSLLVVL
16624	46992	A	16724	31	187	
16625	46993	A	16725	215	947	
16626	46994	A	16726	1	378	
16627	46995	A	16727	2	7567	GGGGARRQRRGDAGGGAETAP SEILSPAEEERSGRSETLRRGT AAGRMATVVVEATE\PEPSGSI ANPAASTSPSLSHRFLDSKFYLL VVVGIVTEEHLRRAIGSIELGI RSWDTNLIENLADQELKLFVSR HSARFSPEVPG\QKIL\HHRSERF *ETV\VLQ\PFLMEGSSGTEVRL MITDAARHKLLVLTGQCFENT GELILQSGSFSFQNFIEIFTDQEI GELLSTTHPANKASLTLCPEE
16628	46996	A	16728	101	365	VITGQPNPTNPNLQATPDIQGT ARLGPA/LHPRGIIPFIGHQSA/R PHAPAPANPNKRTLFRPPPLSPP SPEPPGSGQGAGLGARPALP

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16629	46997	A	16729	1170	2847	VASC*ENACKQNQRQKPCDYLNRCRKGLWQNSTTLHAKNSQ*TVLYKTIKFQLEKTTLKFIWNQKRAHIAKSILSQKNKAVGITLPDFKLYYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNHLIFDKPDKNKKWGDLSFNKWCWQNWLAICRKLKLDPFLTPYTKINSRWIKDLHVRPKTIKTLEENLGNTIQDIGTGKDFMSKTPKAMATKDKIDKWDLIKLSFCTAKETTIRVNRQPTKWEKIFTT
16630	46998	A	16730	79	536	
16631	46999	A	16731	232	771	
16632	47000	A	16732	3	339	
16633	47001	A	16733	279	416	
16634	47002	A	16734	1	1760	
16635	47003	A	16735	309	1718	
16636	47004	A	16736	10	417	IAIMNDTVAIRTRKFMTNRLLE RKQMVIDVLHPGKATVPKTEILEKLAQMYKTTDPVIFVFGFRTHCGGGKTTGFGMIYDSL DYAEKNEPKHRLARHGLYEKKKTS*KQRQERTNRMKKVRGTAKANV VAG*KPNE
16637	47005	A	16737	96	609	EKFMTNRLTSGETKWVI*CPFTPGRRTVP*AQKIR\EKLAQNVQRPHPDVIFVFGFRTHFGGGKTTGFGMIYDSL\DYAKEKMNPKHRLA\RHGPGMEEGKRPSKKGNGKER\KNQN*RKVQGGLAKGPLLGAGQKEEMKCLGSELEIGSQPKELKVLPMMLAVATVDFSQE
16638	47006	B	16738	1	1041	
16639	47007	A	16739	3	447	VSVPFIFIWLTCKSFLKFDLKSN TNVLQSL/GKFQSEVSKRQKLA TVFSSFTSTGLCQGSVAFISRCP PLASGSDSVWRGGSVFFSFRP*RLMISLLGSCVSHQFPEKLEF**KKMPYKIPTAHHQQQDDQQRGHEHKQSQPDVPHLG
16640	47008	A	16740	1	2385	
16641	47009	A	16741	1	639	
16642	47010	A	16742	1	993	
16643	47011	A	16743	127	426	CTDKITLVFGV*MLTPKPKD/CD DSAV*ELLWLTNQLSACVVHPGLYHLHVRSIWIPYRCLFSTMC GVCQTCTVAMQLDCLADSFNAVFKLTEAAGHMAR

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16644	47012	A	16744	3	374	SLRLQFYKISFQTQDQANKLS DSDASHLHPLAPCSEPTRTNVH TKLPRERPQSQIASPYPLPPCPE RLKKQTNKKKNW*EPSPHILPP RNAAAHTGQSRASKSLPAPPPT VSPRPRPGAPGT
16645	47013	A	16745	16	253	
16646	47014	A	16746	163	588	TFHAVLHIENAGYFNSIPFFRIL NHNPLTTVEDPYLFKLPALKYL *VL*YSHESRDDLYSF*IFHQRL SILHLG*NVI\KF*LSY*KKVIGE EKN*EDV*WSRQPAGEREQC*R THIDLE/PCRHMEEYYLTKKAK GKRCSLF
16647	47015	A	16747	2	363	GTSQTLLRSLASACIFQPKVRLL SREEIPLNLNY*SVSPNSNP NHL YSRHTILTAMLTQLGTCVLLPI GLLVPYPNCPSPTGLQVTPFLPS PCGSGWPASFTYSSNRFTTNLL FCVFIL
16648	47016	A	16748	1028	1621	
16649	47017	A	16750	1	112	LGNTWG*QPCRLKIWLSLEFT KINVIRHMWKKFKRL
16650	47018	A	16751	91	597	LKNRRRSRPSIRQSIGSTSVSRW LTSLFTYLDHTADVQ*V*REFIP LKPRQ*ED*MFQSWLHAWGDT LEEAFEQCAMAMFGYMTDTGT VEPLQTVEVETQGDDLQSLLFH FLDEWLYKFSADFFIPGWGEE FSLSKHPQGTEVKAITYSAMQV YNEENPEVFVIIDI
16651	47019	A	16752	226	668	IYFFRLHAWGDTLEEAFEQCA MA\MFGYMTDTGTVEPLQTSRS \KTQGDDLQSLLFHFLDEWLYK FSADFFIPREVKVLSIDQRNFK LRFNGWGEEFSLSKHPQGTEV KAITYSAMQVYNEENPGSFCD HWTFTTKIKRLPTGKK
16652	47020	A	16753	3	942	
16653	47021	A	16754	3	419	SLYHNSSQKRHWTFSSSEQLAR LRADANRKFRCKAVANGKVLP NDPVFLEPHEEMTLCKYYEKRL LEFCSVFKPAMPRSVV\LTCAFL ACKVDEFNVSNPQFVGNLRESP LGQEKALEQILEYELLLIQLNF HLIVHN
16654	47022	A	16755	312	537	
16655	47023	B	16756	209	1381	
16656	47024	A	16757	1	927	
16657	47025	A	16758	1	3987	
16658	47026	A	16759	2	175	

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16659	47027	A	16760	2395	2700	
16660	47028	A	16761	2	1118	
16661	47029	A	16762	26	1205	
16662	47030	A	16763	1	1594	
16663	47031	A	16764	1	595	
16664	47032	A	16765	1	1029	
16665	47033	A	16766	1172	1364	
16666	47034	A	16767	253	389	
16667	47035	A	16768	489	855	
16668	47036	A	16769	2	401	
16669	47037	A	16770	415	694	EAKLHLNLCDSWLCCPTK GK RKQALEVLNILGPFLAPFWIAK SYFFTSPKTQVSSL*FLRYKRIK LQCRPKTCTNPSRTRSCALPGR FIPPF
16670	47038	A	16771	1	765	
16671	47039	B	16772	1	1095	
16672	47040	A	16773	82	311	KANSDVPFQFGVNLEHLMEAC NS/GTNLLNSKRLNNDICLASH TDVSIHARKCCLVVSCLLLRGL SILRSKESHC
16673	47041	A	16774	2	683	
16674	47042	A	16775	1	2703	
16675	47043	A	16776	1	555	DHNSSPAREQ/SSMENKFHELT EVGFRKITSLEKNINDLMELKN TARELREAYTSIKSRIDQAKESI SEIEDQLNEIKCEDKVREKRMK SNKQNFQEIWDYVKRPNLRLT GVPESDRENGTKLENTLQEIIQE NFPNLARQANIQIEIQRQAQR QSSSRATPIHIVRFAKFEIKEKM LRAAREK
16676	47044	A	16777	1	839	
16677	47045	A	16778	1	504	
16678	47046	A	16779	1	2367	
16679	47047	A	16780	1	1566	
16680	47048	A	16781	146	464	VTGWTNYEGNGRWRERSRQLC GCCSRKSSSSWGISLMKSGAP LRPGRMMWSGFRKCSDTQVM YS*R*LLETMTLASIMR*THTK* NALRKCSALKDCFLGKALTL
16681	47049	A	16782	1	1782	
16682	47050	B	16783	221	1075	
16683	47051	A	16784	1	627	
16684	47052	A	16785	1	1539	

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16685	47053	A	16786	1	1318	LSPVLSLSPDSMSFTTRSTFSTN YRSLGVSQAPSYGARPVSSAAS VYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRLASYLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNARIVLQIDNA\RLAAD DFRVKYETELAMRQS\VEND:H GLRKV\IDDTNITRLQLETEIEAL KEEL\LFMKNHEE\EVKGLQA QIASS\GLTVE\ADAPKF\QDLRQ DSWADIR\AQY\DELARKEPRG A*TKYWFSADLRESTTV\VTTQ F\AEV\GAA*DDASQSWRTYSPS SLGDPTWGFWRKS*RAS\LEN SLREG*RPAYALT/QMEQASTGI LACTFESELGTDPGAEGQRQAQ EY\EALLNIKVKLEAEI\ATYRRL \LEDGEDFNLGDALDSSNSMQT IQKTTTRIVDGKVVSETNDDTK
16686	47054	A	16787	1	253	RVRTLKTSTSTCLYWFENKDS/ DHPERSSP*YMSPSHRYGSLVK ASITKPAFLKTSGRLFTCSSQFC PLISKISDGFSLPPFST
16687	47055	A	16788	1	276	AAAAGPPGPLVMFTYRERVSG LRSVHILRASHTDARLRQEPT ERLQFHSSGLLIRFSRETEPIGV YIKED*EEWAYKMMVFASKSHD LPFAN
16688	47056	A	16789	1	203	LLHTSTKNELWQ*GKRDPLIVF YTQYLF*EKTTRK*NQRQAGSL ALGPKPGLRLPGLNPVVENQFI
16689	47057	A	16790	8	361	RGLDQGGGRDGSSSGGGGGGR RRRCLLLLAPAPAVIRASGRGP R*DCWRAGCA*AWRPC/RLAR RMWTLRSPLTRS LYVNMTSGP GGPAAAAGGRKENHQVARKR LNVCVFTRSVSETA
16690	47058	A	16791	674	1076	VQLFRSAGSRDHRFLGRGRN KQTKTLYPTPIPCSLKYQRKQN GSLWTSRMPSSVFPCTLTSPFS LPLRISQTTHPNLRGPSCPKGLG IALISLVRHWLKI*ATSQVQAL WSFSMWMIYFWLPVQKPHASR
16691	47059	B	16792	296	1470	
16692	47060	A	16793	1	334	
16693	47061	A	16794	718	2541	
16694	47062	A	16795	2	406	
16695	47063	A	16796	74	464	
16696	47064	A	16797	159	610	
16697	47065	A	16798	1	273	

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16698	47066	A	16799	1	543	
16699	47067	B	16800	1	873	
16700	47068	A	16801	1	558	
16701	47069	A	16802	27	136	
16702	47070	A	16803	89	363	
16703	47071	A	16804	579	994	
16704	47072	A	16805	129	362	PKIIQPRRATTRFTSIHGWRICPS IPCFPEATINRRRCVKVDSVTCH LLTQR*YKSSKVQERC*SCRIQG QKISDCY
16705	47073	A	16806	878	1811	
16706	47074	A	16807	1	843	
16707	47075	C	16808	19	231	
16708	47076	A	16809	1	1650	
16709	47077	A	16810	3	404	
16710	47078	A	16811	279	428	
16711	47079	A	16812	3	507	
16712	47080	A	16813	1	1128	
16713	47081	B	16814	1	567	
16714	47082	A	16815	3	1206	GSEGQGAGPGGAAATAAAME DEMPKTLTVGNLSRDVTEALIL QLFSQIGPCKNCKMIMDTAGN DPYCFVEFHEHRHAAAALAAM NGRKIMGKEVKVNWATTPSSQ KKDTSNHFHVFGDLSPQITTE DIKAAFAPFGRISDARVVKDMA TGKSKGYGFVSFFNKWDAENA IQQMGGQWLGGRRQIRTNWATR KPPAPKSTYESNTKQLSYDEVV NQSSPSNCTVYCGGVTSGLTEQ LMRQTFSPFG\QIMEIRVFPDKG Y\SFVRFNS/HMESGRHMAIVSV NGTTIEGHVVVKCYWGKETL\D MINPV\QQNQIGYPQPYGQWG Q\WYGNAQQIGQYMPNGWQV P\AYGMYGQAW/SSQGFNSDT VFLAPWDGDPNFGSCNRLQGQ NG\SLLPN\RPSPGYRVAGYETQ
16715	47083	A	16816	1425	1564	
16716	47084	C	16817	151	339	
16717	47085	A	16818	67	373	FCDCHHFILMFKSPHIWPVGIFS SWLLCFFWACLHHSLSIALLS TKRYSGILYFLCSSFEITVSSKS SVSF*RRMVFRNQVLGSRACC C*GVAAPRFPF

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16718	47086	A	16819	1	799	MGPHWLWLHLALVLLPPSALL LPSCEKGVLRVRFYHEKWIYV HKESTKERHGYCTLGEAFNRL DFSSAIQDIRRFNYVVKPLLPRY KFQRLNAITKDRQRSSSGVQLP HAGQPQGADPTQDERRQVAGD TPGDPRALAGGGVVDRTYPGS YEASGRPGLQLALAIEDLLRDS AIGCTFCDRCPVGAQRLLAHS LALAAPGAEKREVVKLLLVAY VRRRPGKNLTTQNCQPAAGYI PPGHQ*AASAHARSWKNQQPP PRVLIGSA
16719	47087	B	16820	28	438	
16720	47088	A	16821	366	793	AWVEQSKVLIKEGGIQLLLTIV DTPGFGDAVDNSNCWQPGINYI DSKFEDYLNAESQVNRCQMPG NRVHCCLYFIAPSGHGPHLN*R LPPSGRIG*YMFVTTWHCLLLR LKPLDIEFTKHLHEKVNIPLIAK ADTLMPEEC
16721	47089	C	16822	228	374	
16722	47090	A	16823	291	604	AWELEKSHLRRGLDPSHNINIR VEPKF*SKYGGVQLLLTIVDTP RFGDAVDNSNCWQPVINYIDIK FEDYLNAESRVNRCQMPGNRV Q**LYFIAPSGHGPHLN
16723	47091	A	16824	148	498	
16724	47092	A	16825	1	595	DRPRITGGGKSGTEYPENLPTL KATIENKNSVLNTATKMKDVQ TSTPAEQDLEMA\SEGEQKRLE EYENNQPQVKM\QIHSRDDLDD IIQSSQTVSEDGD\SLCCNCKNVI LLIDQHEMKCKDCVHLLKIKNT FCLWKRLIKLDNHCEQLRVKI RKLNKASVLQKRRISEKEEIKS QLKHEILELEKELCSLRFAIQQE
16725	47093	A	16826	1	828	
16726	47094	A	16827	1	540	
16727	47095	A	16828	295	460	
16728	47096	A	16829	2	1355	
16729	47097	A	16830	650	1184	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16730	47098	A	16831	725	2368	AVDIKEIKHPQKHKKLPAPQLR PFPLREETIPCNGVSFPRCEPPCL AEVYMCLNEMLKDEKKGCMN KSGAGENPQERTAQKRKFPSPP HSSNGHSPQDTSTSPIKKKKKP GLLNSNNKEQVKQPLECIETQS KAMTMLTIEQLSYLLKFAIQKM KQPGVRRKLKVPLEQHPDYA EYIFHPMDLCTLEKVGLRQMY GCTEAFADAKWILHNCHYNG GEWLRTQIAKVVIKICEHEVCV SQVCPECYLAACQKRDNWFCE PCVSWIYDASACQPV*WKLVIQ MFLPM/WKADIL/RGEEG*YTSE LIGWL*SLSCDCSAGTSISHPSD SD*RWLTEHEGRRVSWP\VNNC YLMSKEIPFSVKKTKSIFNSAM QEMEVYVENIRRKFGVFNYSFP RTPYTPNSQYQMLDPTNPSAG TAKIDKQEKVKLNFDMTASPKI LMSKPVLSGGTGRRISLSDMPR SPMSTNSSVHTGSDVEQDAEK KATSSHFSASEESMDFLDKSTG QLRAGERGGGPLDTGVSHGCT LGGPKQVSIKQASVLQDTMN
16731	47099	A	16832	2	164	PSTLRAEAWPP*NGSPVPLASS QASSRSGPTSCIPRYPVASPE RLPLPTAA
16732	47100	A	16833	51	498	
16733	47101	A	16834	1	531	
16734	47102	C	16835	257	358	
16735	47103	A	16836	63	193	SGRLAPHTSRRTSANCSDDAKS SDSCSPSRKT*WSGRNTNRIH
16736	47104	A	16837	1	834	
16737	47105	A	16838	258	545	CQNPQILASPSTKDLMLGLGRNT NKDTLKAACLARVVKRRSECSQ KPAS*MCTERNPTSMREVDLE RKYAVLYQPLFD*AVLKLLMQ FMNLRKEGM
16738	47106	A	16839	66	476	
16739	47107	A	16840	1	1362	
16740	47108	A	16841	1	747	
16741	47109	A	16842	522	687	
16742	47110	A	16843	112	861	
16743	47111	A	16844	87	472	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSRK NPRPSLRGPLLTLEFSRLRFREF VYPEAAGPHHTLARLDELRCRQ WLMPEARSKEQMLELLVLEQF L/SILPDKVRPWVVAQYPES
16744	47112	A	16845	1	393	

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16745	47113	A	16846	621	1099	
16746	47114	A	16847	1	453	
16747	47115	A	16848	209	1175	
16748	47116	A	16849	1	546	
16749	47117	A	16850	187	421	LGESSQ*GSP\PPPTGGCGPATG Q*PLGQSFQRKELAAIFAVSQY SLVPPGPGMGETEATGIWSRPPA NGNSPTVEWHIK
16750	47118	A	16851	3	1654	
16751	47119	A	16852	166	465	
16752	47120	A	16853	1	558	
16753	47121	A	16854	51	380	RNNLLLLTHHFVLIQFLIPRKET KYLLVITPYSLSINVLNFFYYSS PESLNDTNCYHHEEADTPWR*F LAIFEGLFNIAHQMQNMPFFLL WKQVPETLVIQQQLPRIN
16754	47122	A	16855	3	550	
16755	47123	A	16856	1	462	
16756	47124	B	16857	1	2811	
16757	47125	A	16858	3	514	ASGTAPEIQARPTRPRRKRKRK LLPL/TKAEAKAKALKAKKAVL KGVHSHKKKKKIRTSPTFRPKT LRLRRQPKYPRKSAPRRNKLDH YAIKFPLTTESAMKKIEDNNTL VFIVDVKANKHQIKQAVKKLY DIDVAKVNTLIRPDGEKKAYVR LAPDYDALDVANKIGII
16758	47126	A	16859	73	396	FFQFSPKKNCVWVWNC\AEVLL KYKTGETNDFELLKNQLLDPDI KRLPWLNRSQTVVEEYLAFLG NLVSAQTVFLRPCLSMIAHFV PPRVIIKEGDVDVSDSDDEDD
16759	47127	A	16860	132	357	YVSKFAGRLSSSSSESETSTSPS LMITRGGTKWGSNHAETRSEE NSLC*YKITKKSQILFHYCFDFY STKAISI
16760	47128	A	16861	380	597	
16761	47129	A	16862	179	280	QRDIKSCVQILQWEGSTRPFTN E**YMANVRNS
16762	47130	A	16863	2	175	
16763	47131	A	16864	178	374	
16764	47132	A	16865	386	2120	
16765	47133	A	16866	887	1104	

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16766	47134	A	16867	1	708	MEVAALEHLDHRLREKVKQQN ALRHQVVLRRRLEELQLQHS LRLLEMAEAQNRHTEVAKTMR NLENRLEKAQMKAQEAHITS VYLQLKAYLMDESLNLENRLD SMEA EVVRTKHELEALHVVNQ EALNARDIAKNQLQYLEETLVR ERKKRERYISECKKRAEEKKLE NE/LHGAQADPGSDLNPRADPP RAPAATVRRHHPGQPACQGGG AAAALHVPDGGDLWQGQGR HWH
16767	47135	A	16868	1	1327	
16768	47136	A	16869	1	1776	
16769	47137	A	16870	1	397	
16770	47138	A	16871	1	1974	
16771	47139	A	16872	1	336	
16772	47140	A	16873	3	661	GRGGHNFAPNLTARSAVTSGL GGPPAAVMVGS LNCIVAVSQN MGIGKNGDLPWPPLRNEFRYF QRM TTTSSVEGKQNLVIMG\KK TW\FSIPE/RRNRPFKG*EFNLVL SRELQGNLPQGAHFLSRSLDDA LKLTEQPELANKVGMVWIVG GSS\YKESMNHSSSLKLFVTRII QDFESDTFFPEIDLEKYKFLPEY PGVFFDVQEEKGIKYKFEVHEK
16773	47141	A	16874	38	755	ALKTCSVNQPDADNIAGSSGH LRTLSPVVSRSCLKEEERRRRR RMKRRQRSRRRRSRRRRMRMR RRSRRRRRMKRRKRRRRMKR RSSFILMYFFMLLLSGIPLLYME VIMGQWLHVDNIRVWKQLVP WLCMSY/SSQSVCASVSLYNS TIISWNFFYSFAHPLPWDHCPLV KNISVTDWAHQYFLYHTTLHA SDHSEEAALVPNRS LGCLLG RDHRDLDFKPEIRRG AHTGGAR
16774	47142	A	16875	1	1830	
16775	47143	A	16876	2	1142	
16776	47144	A	16877	1	435	
16777	47145	A	16878	1	963	
16778	47146	B	16879	247	1092	
16779	47147	A	16880	1	1653	
16780	47148	A	16881	1	2268	
16781	47149	A	16882	301	555	
16782	47150	A	16883	1	630	
16783	47151	A	16884	731	834	
16784	47152	A	16885	1	2277	
16785	47153	A	16886	45	2446	
16786	47154	B	16887	625	696	

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16787	47155	A	16888	193	315	WPGGGYSLLCFWCPLSFAGAA G/W*PPPGHH*PYSKQEHYRT NSDTLIFLSSRTLVLQGS*GIKV AGSEGPKYNE*PRNPVLPCLCL HLFGC
16788	47156	A	16889	1	588	
16789	47157	A	16890	2	229	
16790	47158	A	16891	1	502	
16791	47159	A	16892	516	576	
16792	47160	A	16893	144	435	
16793	47161	C	16894	1	996	
16794	47162	A	16895	424	632	
16795	47163	B	16896	446	1944	
16796	47164	C	16897	207	470	
16797	47165	A	16898	1	396	
16798	47166	A	16902	1	585	
16799	47167	A	16903	141	906	
16800	47168	B	16904	99	276	
16801	47169	A	16905	1	756	
16802	47170	A	16906	1	383	
16803	47171	A	16907	1	582	
16804	47172	A	16908	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPIWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGPAIFCR* LLSF*ETALGLLLGFGGN*TFDY
16805	47173	A	16909	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVIFPVPECRIG RDILSSWQNPHGTSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY
16806	47174	A	16910	232	633	
16807	47175	A	16911	1	1677	
16808	47176	A	16912	328	381	LLKLQH*MQSPYLVGPSQ
16809	47177	A	16913	3	811	
16810	47178	A	16914	1	1125	
16811	47179	A	16915	1	1191	
16812	47180	A	16916	113	485	
16813	47181	A	16917	1	357	
16814	47182	A	16918	12	398	
16815	47183	A	16919	498	595	TEMASTTTCT/RFHDEYQLFEEL *KGAFSVNGT
16816	47184	A	16920	5	367	

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16817	47185	A	16921	190	2005	VLYPLHLGTGTGKGAGGASSG EEGSEARRRRRIGGLWGRRPHA TLSGHLPSRPAPAHTPSRASYFR TRK VRAALGDSAAGPVPGLAA RLLASGPSRSQPGHSPGPEMAS TTTCTRFTDEYQLFEE\LRGAF SVVRRCKMIPTGQGYAAKIINT KKLSARDHQKLEREARICRLK HPNIVRLHDSISEEGFHLYLFDL VTGGELFEDIVAREYYSEADAS HCIQQILES\VNCHLNGIVHRD LKPENLLLASKSKGAAVKLADF GLAIEVQGDQQA WFGFAGTPG YLSPEVLRKDPYGKPVDMWAC GVILYILLVGYPFWDEDQHRL YQQIKAGAYDFPSPWDVTPE AKDLINKMLTINPAKRITASEAL KHPWICQRSTVASMHRQETV DCLKKFNARRKLKGAILTTML ATRNFSAAKSLLKKPDGVKEST ESSNTTIEDVDKARKQEIHKVT EQLIEAINNGDFEAYTKICDPGL TAFEPEALGNLVEGMDFHRFYF ENALSKSNKPIHTIILNPHVHLV GDAAACIA YIRLTQYMDGSGM PKTMQSEETRVWHRRDGKWQ NVHFHRS GSPTVPIKPPCIPNGK ENFSGGTS LWQNI
16818	47186	A	16922	1	288	
16819	47187	A	16923	318	458	
16820	47188	A	16924	1	578	
16821	47189	A	16925	803	1068	
16822	47190	A	16926	1	660	
16823	47191	A	16927	2	325	TSENNGPKR*IHSTESLYLLQ GSVVADHDYIGLPEIPIGAYQA NILVEDATIGIVDNELLTSSKDR ELLEYRNTKISPLIDHSSLEKQ TFSLLDSSNQVLEYLS
16824	47192	A	16928	156	573	
16825	47193	A	16929	405	599	GLEPPQKPGLVTSILQANPVPLP CGNSQSR*TSTRCWYEH LQCTQ SHLQMQQYHEAYQSACALA
16826	47194	B	16930	1	1676	
16827	47195	A	16931	1	1125	
16828	47196	A	16932	27	818	
16829	47197	A	16933	1	4986	
16830	47198	A	16934	1	4401	
16831	47199	A	16935	153	370	SVLETCMSTAFPVSCHSSFKTA VLRISLS*ISAQGGPIDLFSQCHP SSSTGVSS\NHRGSWDTPGQSL VVICL

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16832	47200	B	16936	47	501	
16833	47201	A	16937	49	1714	
16834	47202	A	16938	1	999	
16835	47203	A	16939	140	2029	FAARAGPGGSRRARRGNKWAR MPYEIKKVFASLPQVERGVSKII GGDPKGNNFLYTNGKCVILRNI DNPALADIYTEHAHQVVAKY APSGFYIASGDVSGKLRIWDTT QKEHLLKYEYQPFAGKIKDIAW TEDSKRIAVVGE GREKFGAVFL WDSGSSVGEITGHNVINSVDI KQSRPYRLATGSDDNCAAFFEG PPFKFKFTIGDHSRNVNCRVSP DGNRFATASADGQIYIDGKTG EKVCALGGSKAHDGGIYAIWS PDSTHLLSASGDKTSKIWDVSV NSVVSTFPMGSTVLDQQLGCL WQKDHLLSVLSGYINYLDNRN NPSKPLHVIKGHKSIIQCLTVH KNGGKSYIYSGSHDGHINYWD SETGENDSFAGKGHTNQVSRM TVDESGQLISCSMDDTVRYTSL MLRDYSGQGVVK\LD\VPKC\ VAVGPGGYAVVVCIGQIVLLK DQRKCFSI\DNPGYEPEVVAH PGG\DTVAIGGVDGNVALYSIL GTTAKDEGKLLKAKGPVTDVA YSH\DGAF\AVCDASKVVTVFS VADGYSENNVFYGHAKIVCL AWSPDNEHFASGGMDMMVYV WTLSDPETRVKIQDAHRLHHVS SLAWLDEHTLVTTSHDASVKE
16836	47204	A	16940	31	449	
16837	47205	A	16941	1	53	
16838	47206	A	16942	1	389	GMPTSTIASCSQDGRVFIWTC DASSNTWSPKLLHKFNDVVWH VSW SITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQQDYFP RRSYRCSHRLIICLVNIGNAL
16839	47207	A	16943	1	438	
16840	47208	B	16944	1	1267	
16841	47209	A	16945	635	808	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16842	47210	A	16946	37	1319	QGEHGHRGLHGLGRPESQIPS WSRSAPLHRLEIWGALAPSLAD HSEGSPEVSVINTVDTSHYMI Y\DAQMDYYGHPPGQPASSDRS VKIF*CAQWEGRSLFADLQGS WRGPVWQVGWGFPLLRATS WAFVASLLTGKFIYSWERGKT GTLGRRATSNAGTRLLKLNFGC CWAPHGLTVLHSWACWVVS RGPSSL\LDFTPGEQWVKKIN NAHTIGCNAVITWAPACCTWK PHRRPHRGQKPNYIKRFASGGC \DNLI\KLWKEEEDGQWKEEQK LE\GHSDWV\RDVAWAPSIGPA HQHHRPAAPRMGRVSIWTCDD ASSNTWSP*IV\DKFNDVVWHV S\WSITANILAVL\CGDNK\VPL WKES*WAKWVVPSSDVKQRG PGLPYQPSSDQEGPARNEQVVK DQGGALAPPPAQLPGPAPSPGP
16843	47211	A	16947	1	1021	MSGEFIDHSHIARIYPGIFGTDA GSCIDQRGITGKLQPPEDRRL GEGKLTNTKDIHTKTPSVRHHH QRPKVDKTTKIGKKQSRKTGNS KNQSAPPPKCESSSPAMEQSW TENDFDELREEGFRRSNYSELK EEFRTHGKEVKNLEKRLDEWL TRITNAEKSLKDLMEKTKARG LQRVSVMEDEMNMKQEEKFR EKRIKRNKQSLQEIWDYVKRPN LRLIGVPESDGENGTKLENTLQ DIIQESFPNLARQANIQIEIQR MPQRDSLRRATPRHIVRFTKV EMKEKMLRAAREKA\HIALIPK LTT*LEVKLSSANVKEQKL*QT VFQTTVQSN
16844	47212	A	16948	1	393	
16845	47213	A	16949	1	2631	
16846	47214	A	16950	1	1155	
16847	47215	A	16951	1	1185	
16848	47216	A	16952	1	942	
16849	47217	A	16953	1	615	

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16850	47218	A	16954	474	2678	IKPQRWGKKQSRKTGNSKNQS ASPPPKERSSSPAMEQSWTEND FDELREDSFRRLVITNYSELKEE VRTNGKEVKNLEKKLDEWLTR ITNAEKSLKDLMEKLTMAQELP DQCTSLSSRCDQLEERVSVMED EMNEMKCEEKFREKRIKRNEQ SLQEIWHYVKRPNLRLIGVPES DGENGTKLENTLQDIIQENFPN LARQANIQIEIQRMPPQRYSSR RATPRHIIVRFTKVEMKEKMLR VAREKGQVTHKGKPI\RLTADL LAETLQARREWG\PIFNILKEKN FQPRISYPAKLSFIDRSTRQKVN KDTQELNSALHQADLIDIYRTL HPKSTEYTFFSAPHHTYSKIDHI VGSKALLSKCKRTEIITNCLSDH SAIKLELRIKKLTRNHSTTWKL NNLLLNDYWVHNEMKAEIKM FFETNENKDKTYQNLWDTFKT VCRGKFIALNAHKRKQERSKID TLTSQKGLEKQEQTTHSKASRR QEITKIRAEKERVGRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNPDQGTASMY HGWPDLHHHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HLMLRLAIETVAHDYDVIVIDS
16851	47219	A	16955	1	675	
16852	47220	A	16956	1	1032	
16853	47221	A	16957	3	978	HEAKHQMADDAGGSGGGPKA LVGPGMG\NPVAFRRGF\GIVIR GPGSRPGGRGR\GRGARGSK \AEDKDW\MPVTKLG/RALVKD H*RSKFPWKEIYLFSLPH*RNQR IIDF\FLGGLLSKDEGFE*LCPVQ EQDPCPASRTQASRPFAIGGL QMAHVGLGC*VLPRKVATGHP VGAILAKLSIVPVRR\GYLGNK VLAKP\HTVP\CKV\TGRCGSVL VRLIPAP\RGLGMVSAPVA\KKL LMMAGIDDCYT\SARG\CTATL GQIWPRATL*LPFLRTYKLP*PP DLWKGRLYLPSFPIKEFT\DHVLV KDPHPSSVQQDSELQLVATT
16854	47222	B	16958	124	274	

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16855	47223	A	16959	202	2264	KWPKMNPQQQRMMAAIGTDKE LSDLLDFSAMFSPVNSGKTRP TTLGSSQFSGSGIDERG\GTTSW GTSGQPSP\SYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSESGSFSLYSRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPSYSPK PPTSMFASTFFMQDGTHNSSDL WSSSNGMSQPGFGGILGTSTSH MSQSSSYGNLHSHDRLSYPPHS VSPTDINTSLPPMSSFHRGSTSS SPYVAASHTPPINGSDSILGTRG NAAGSSQTGDALGKALASIYSP DHTSSSFPSNPSTPVGSPSPLTG TSQWPRPGGQAPSSPSYENSLH SLQSRMEDRLDRLDDAIHVLRN HAVGPSTSLPAGHSDIHSLLGPS HNAPIGSLNSNYGGSSLVASSR SASMVGTHREDSVSLNGNHSV LSSTVTTSTDLNHKTQENYRG GLQSQSGTVVTTEIKTENKEKD ENLHEPPSSDDMKSSDESSQKD IKVSSRGRTSSTNEDEDLNPEQ KIEREKERRMANNARERLRVR DINEAFKELGRMCQLHLKSEKP QTKLLILHQA VAVILSLEQQVR ERNLNPKAACLKRREEEKVSA VSAEPPTTLPGTHPGLSETTNP
16856	47224	A	16960	1190	1327	
16857	47225	A	16961	386	554	ATISFRYSQCK*AEQGCDSELG LFTKIRKSGYWGV*ATISFRYSQ CKALEIHLTAPVVPALRIWGF QIPGFNQLSFHPSPEKSGSFLPC
16858	47226	B	16962	499	915	
16859	47227	A	16963	1	1785	
16860	47228	A	16964	1	3036	
16861	47229	A	16965	2	710	
16862	47230	A	16966	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
16863	47231	A	16967	1	1335	
16864	47232	A	16968	83	426	
16865	47233	A	16969	93	345	APALCLQILLDCSVNRNRTSRF RPREVGIIQYKKGGAAGKGG TGNAPGFLLFKDS*KDPTPLPP PLLL*GQRDH*IQLHQE
16866	47234	A	16970	1	1302	
16867	47235	A	16971	1	1174	
16868	47236	A	16972	274	1428	

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16869	47237	A	16973	411	629	HCLSHFQNTGPRGDVDFQQEL FPVLMADIRKEERSHLCRSSRR TWTILDKS*IQGSRLSSKEQGW GWGTSRK
16870	47238	A	16974	618	1552	
16871	47239	A	16975	1	558	
16872	47240	A	16976	1	765	
16873	47241	A	16977	2	418	
16874	47242	A	16978	130	1965	
16875	47243	A	16979	1	1062	
16876	47244	A	16980	1	558	
16877	47245	A	16981	37	676	
16878	47246	A	16982	1	1014	
16879	47247	A	16983	1	2964	
16880	47248	B	16984	259	1751	
16881	47249	A	16985	1	987	
16882	47250	A	16986	1	1047	
16883	47251	A	16987	3	1413	GLHAARGPWVVQAWISITMER KEVCYQQLGCFSDKWPAGTL QRPVKLLPWSPEDIDTRFLLYT NENPNNFQLITGTEPDTEASNF QLDRKTRFIHGFLLDKAEDSWP SDMCKKMFEVEKVNCICVDWR HGSRAMYTQAVQNIRVVGAET AFLIQALSVKPCLGPNLWVGVR EGQGDAAARGTALEDVHVIAHS LGAHT/AAEAGRSWGPRGRITD DLGTA*YKVDGMG*ERRGVRF SI*P*GGGV*AGFGGERFR*RKN VGKSTAGWRMGLDPAGPCFQ DEPEEVRLDPSDAVFVDVIHTD SSPIVPSLGFQMSQKVGHLDFFP NGGKEMPGCKKNVLSTITDIDG IWEGIGGFVSCNHLRSFEYYSSS VLNPDGFLGYPCASYDEFQESK CFPCPAEGCPKMGHYADQFKG KTSAVEQTFFLNTGESGNFTSW RYKVSVTLSGKEKVNGYIRIAL YGSNENSKQYEIFK
16884	47252	B	16988	95	315	
16885	47253	C	16989	1	780	

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16886	47254	A	16990	2	1426	SGTLDRMLIFW/TITLFLGAAK GKEVCYEDLGCFSDTEPWGGT AIRPLKILPWSPEKIGTRFLLYT NENPNNFQILLSDPSTIEASNF QMDRKTRFIIHGFIDKGDSEWV TDMCKKLFEVEEVNCIFV\DWK KGSQATYTQAANNVRVVGAAQ VAQMLDILLTEYSYPPSKVHLI GHSLGAHVAGEAGSKTPGLSK/ RLQGLDPVEASFESTPEEVR\LD PSDADFVDVIHTDAAPLIPFLGF GTNQQMGLHDFFPNGGESMPG CKKNALSQIVDLGDIWAGTRDF VACNHLRSYKYYLESilNPDGF AAYPCTSYKSFESDKCFPCPDQ GCPQMGHYADKFAGRTSEEQQ KFFLNTGEASNFARWRYGVSIT LSGRTATGQIKVALFGNKGNT QYSIFRGILKPGSTHSYEFDAKL DVGTIKVKFLWNNNVINPTLP KVGATKITVQKGEEKTVYNFCS EDTVREDTLLTLTPC
16887	47255	A	16991	1	1407	
16888	47256	A	16992	954	1663	EPSPDPAHAPSVALLHTGNQSK VLPWPRNPCMKRW*K*KMLKI SWVHEWVTSNWISTAVRSLRV FAPKNVFQ**ALGPSGLVYC
16889	47257	A	16993	3	242	
16890	47258	A	16994	1	1815	
16891	47259	A	16995	1	375	
16892	47260	A	16996	3	2005	
16893	47261	A	16997	1	651	
16894	47262	A	16998	114	275	
16895	47263	A	16999	1	270	
16896	47264	A	17000	140	876	PPALVVGRRQKSWRMFEQMRA NVGKLLKGIDR\YNPENLATLE R\YVETQAKENAYDLEPNLAVP ESCTKFNP\AFFQTNGSTAQDSC *KALTNLPHTDFTL\CKC\MIRP GHIQE\ERPIPTDFCYLGGPGWE TWPF\SR\AFWESPGMKTVDLLW KV*LGF\EDSV\RKFI\CHVVGIT YQHIDR\WLLAEM\LGDLFGQAS *RCW\MSKYGWSADESGQIFIC SPRREHLTPRNIVEKIDFDSVSSI MASSQ

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16897	47265	A	17001	1	777	MSGENVTKVSTFILVGLPTAPG LQYLLFLLFLLTYLFVLVENLAI ILIVWSSTSLHRPMYYFLSSMSF LEIWYVSDITPKMLEGFLLQKQK RISFVGCMTQLYFFSSLVCTEC VLLASMGYDRYVAICHPLRYN LACTDFSTAELV/SFILAFIILVFP LLATILSYWHITLAVLRIPSATG CWRAFSTCASHLTVVTVFYTA LLFMYVRPQAIDSQSSNKLISA VYTVVTPIINPLIYCLRNKEFKD ALKKALGLGQTSH
16898	47266	A	17002	2	876	
16899	47267	A	17003	1	894	
16900	47268	A	17004	377	501	
16901	47269	A	17005	3	823	
16902	47270	A	17006	1	874	
16903	47271	C	17007	156	287	
16904	47272	A	17008	1	1140	
16905	47273	A	17009	1299	3135	ISGSVCILLWLQLLPAYNLIHT WEHRHSPPGT/RMSRLAKRNA WEADR/YAEAKLAASRRGQPSS LMSSREGGWGEGSQSRNSSHG ALKEAQFIITNAEKSCLKDLMEL KTMAQELRDECTSLSSRFDQLE EKVSVMEDEINEMKQEEKVRE KRIKRNEQSLQEIWDYVVRPNL HLIGVPESDRENGTKLENTLQDI IQENFPNLARQANIQIQEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTIREYYK HLYTNKLENLEEMDKFLDTYS LPRLNQEEVESLKRPIGTSEIGAI INSLPTKKSPGPDGFTAIFYQRY KKELVPFLKLFQSTEKERILPN SFYEASIIIPKPGRDTTKKENFR PISLMNINAKILNKILANQIQQHI EKLIHHDQVGFIPGMQGWFNIR KSINVIQHINRTNEKNHMIISIDA EKAFDKIQQPFMLKTLNKLIGID GTYLKIVRAIYDKLTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLRARIRQEKEIKGIQLG KEQVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIK
16906	47274	C	17010	189	457	
16907	47275	A	17011	2	2600	
16908	47276	A	17012	107	1493	

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16909	47277	A	17013	3	2209	IHTKTPSVCHHHQRPKVDKTTK MGKKQSRNTGNSKNQSTSPPP KECSSAPAMEQSWMENDFDEL REEGFRRSNFSELTEEVTRHRK EAKNLEKKIRQM\VTRITNVEK SLNDLMELKNMARELRDKCTS FSSRFDQLEERVSVIEDQMNE KQEEKFREKRVK\RNEQSLQEIR DYVKRP\NLRLIGIPESDEENG KLENTLQDI\QENFPNLARQAN IQIKEIQRMPQRYSSRRATPRQ\I IVRFTEVEMREK\MLRAAREKG RVTHKGKTIRLTVDLSAETIQA RRESTRQKVNKDIQELNSAQHQ ADLTDNYRTLHPKSTEYTLFSA PHHTYSKIDHIVGSKALLSKCK RTEITNCLSDHSAIKLELRICKL TQNLSTTWKLNLLNDYWVH NEMKAEIKMLFETNENKDTTY QNLWDTFKAVCRGKYIALNAH KRKQERSKIDTLTSQLEKEKQ EQSHSKASRRQEITKIRAEKKEI ETQKTLQKINESRDWFFEKINKI DRQLARLIKKKREKNQIDTIKN VLEFLAKAIRQDKEIKGIQLGKE EVKLFLFAEDMIVYLENPIVSA QNLLKLISNFSKVSGYKINVQK SQAFLYTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDMKDLFK ENYKPLLNIKIKEDTKKWKNI PCSWVGRINIMKMAILPKVIYRFN AIPIKLPMTFFTELEKTTLKFTW
16910	47278	A	17014	292	699	
16911	47279	A	17015	269	803	ALGPCSEALPTWVNENGEEMA QEIDLSALKELEREAILQVLYRD QAVQNTTEEERTRAAGN*KHTC SISGGKGPKNTDWEHKEKCCA RCQQVLGFLLRGAVCRGCSH RVCAQCRVFLRGTHAWKCTVC FEDRNVKIKTGEWFYEERAKKF PTGDNSV\RTSCTGKHETVGGQ LLQSYQK
16912	47280	A	17016	1	1173	
16913	47281	A	17017	349	718	AGPEGTTTAECP\I/CQQQRPILS LRYGTISWG/DQSATWWQVDY IRTLWSWKWQSASAKTTIHGLT KCLIHHDIPHSIASD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSFPN

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16914	47282	A	17018	196	577	GSSGQSESAQPQGLWVLPSRTS LAILSTDVNV*QPCFPAGAHQG QPLAWVPVFLAWLSWQQKRC* KQQRSSRNLDHRNPGWLHEE GDKTPFFHHFPQLGQSLSQQS LLPAGRR*ARGPQQQLPSP
16915	47283	A	17019	1	2523	
16916	47284	A	17020	236	558	
16917	47285	A	17021	1610	2004	VTWSAQQMPWAIKNCPTHSP L GQGCLPQPKM*VVQNDFAQ*G* WTHCRKGIKGGQRVGVWPWQ TQNRGKGTFLTPLHSAVADAM LYAL*RGSDLDAAQTLPTAAQ DALYAVVPGGEPTGQLQVRHN EFALGQ
16918	47286	A	17022	1	735	
16919	47287	A	17023	88	1871	
16920	47288	A	17024	1	1299	
16921	47289	A	17025	2	260	
16922	47290	A	17026	144	1737	
16923	47291	A	17027	1	1182	
16924	47292	A	17028	262	1132	
16925	47293	A	17029	1	484	
16926	47294	A	17030	3	382	LKGAPDLELDGESRRTWRERK GRKRKERALGRWQV*RSRCA* P/STPAALNAPLQGASHSPFRLR NCWKGRSVRASSLLRQLAKGG CAARRLSWNLCQIVQMYEGHS QQPGLQPRQLRWSSQTLRTA
16927	47295	A	17031	1	2022	
16928	47296	A	17032	209	403	
16929	47297	A	17033	213	1993	
16930	47298	A	17034	1	378	
16931	47299	A	17035	64	1180	SASHSGAPATSLYERGVCPAL RRPPAVLVCRAAASCTLLAMS DLQEEGKNAINSPMSPALVDVH PEDTQLEENEERTMIDPTSKEDP KFKELGKVLLDWINDVLAERI IVKQLEEDLYDQVLQKLF/EK NLAGLQSLNVAEVTQSEIGQKQ KLQKVLEQLHDLRPRSWALR WLGNSIHGKNLVGNPQLLVSL AMHFRAPIRLPEHVTVQVVVV RKREGLHSSHISEELTTTTEM MMGRFERDAFDTLFDHAPDKL SVVKKSLITFVNKHLNKLNLEV TELETQFADGVYLVLLMGLLE DYFVPLHHFYLTPESEFDQKVHN VSFAFELMLGRRPSRNPRLVLK TWLTWDLKSPLRVLYNLFTKY
16932	47300	A	17036	3	764	

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16933	47301	A	17037	1	1230	
16934	47302	A	17038	1	313	
16935	47303	A	17039	145	263	IFLLYLKNKVQNK*EIKQHFLG KIMSRDNNNTYLTWGTE
16936	47304	A	17040	5	982	PTFSRAVATMFSRAGVAGLSA WTLQPQWIQVRNMATLKDITR RLKSIKNIQKITKSMKMVAAAK YARAERELKPARIYGLGSLALY EKADIKGPEDKKKHLLIGVSSD RGLCGAIHSSIAKQMKSEVATL TAAGKEVMLVGIGDKIRGILYR THSDQFLVAFKEVGRKPPTFGD ASVIALELLNSGYEFDEGSIIFN KFRSVISYRTEEKPIFSLNTVAS ADQHGVSMTDIDADVAAKITQ EY/NIWANIILLTLWKESTTSGG RSARG*QPWDNGQARIAFWRM DLNLDIWTFFNR\TRQAVITKE LIEISGAASSVKKENSAS
16937	47305	A	17041	1334	1790	
16938	47306	A	17042	1	930	
16939	47307	A	17043	2	477	SGLGRLPGPWQEAGSSRGPSG DMAGVKALVALSFSGAIGLTF/ LHMLGCALEDYGVYWPLFVLI FHAISSIPHFIKRVTYDSDATS SACRELA YFFTTGIVVSCLWISP VILARVALIK\WGACGL\VLA\G NAVIFPYNSRGSFSLYLGRGDDF SW\EQW
16940	47308	A	17044	130	434	
16941	47309	A	17045	1	1365	
16942	47310	A	17046	656	839	
16943	47311	B	17047	16	149	

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16944	47312	A	17048	1	1317	MTLNEHA AFKHLFNKAHLAPP LIHLT LSGHSTCFREHRVGVICS HFAQDLWPEQGREDSFQKVILR RYEKC GHENLQLKIGCTNVDES LTYKRIHTGEKPCKCEECDKAF SKFSILT KHKVIHTGEKHYKCE ECGKAFTRSSSLIEHKRSHAGE KPYKCEECGKAFSKASTLTAHK TIHAGEKPYKCEECGKAFNRSS NLMEHKRIHTGEKPCKCEECG KAFGNFSTLT KHKVIHTGEKPY KCEECGKAFSWPSSLTEHKRIH AGDKPYKCEECGKTFKWSSTL TKHKIIHTGEKPYKCEECGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECGKAFKWSSRLSEH KRIHTGEKPYKCEECGKAFSW VSVLNKHKKIHAGKKFYKCEE CGKDFNQSSHLTTHKRIHTG/E KPYKCEECGKAFSKASTLTAHK TIHAGEKPYKCEECGKAFNRSS NLMEHKRIHTGEKPCKCEECG KAFGNFSTLT KHKVIHTGEKPY KCEECGKAFSWPSSLTEHKRIH AGDKPYKCEECGKTFKWSSTL TKHKIIHTGEKPYKCEECGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECGKAFKWSSRLSEH KRIHTGEKPYKCEECGKAFSW VSVLNKHKKIHAGKKFYKCEE
16945	47313	A	17049	2	2183	

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16946	47314	A	17050	3	1440	IKVLLGENRVPNTMAVWLAQ WLGKGASLTSFPPCPTASLLRR LGEHIQQFQESSAQGLGLSLGP GAAALPKVGWLEQLLDPFNVS DRRSHLAQRYWVNDQHWVGQ DGPIFLHLHLTSPPTHTLFTGH PAALAPAWGALVISLEHRFYGL SIPAGGRLALSRLFNISSSSPWIC FGGSYAGSLPSHHPTF/PRAQR IS*HFRIPSSAVRPQVVSRLMS TAIGGSLE/CRRWGLVRGGLGG KRGLGCQGRGGPA*VLADIASC FPQCRAAVSVAFAEVERRLRSG GAAQAALRTELSACGPLGRAE NQAELLGALQALVGGVVQYD GQTGAPLSVRQLCGLLLGGGG NRRGGIYVLCMYIVP*IVLHSLG QKCLSFSRAETVAQLRSTEPQL SGVGEAPIYLAPSYPPFGDTP WHVLSVTQALGSSESTLLIRTG SHCLDMAPERPSDSPSLRLGRQ NIFQQLQTWLKLAKESQIKGEV
16947	47315	B	17051	41	2709	
16948	47316	A	17052	874	1024	
16949	47317	A	17053	1	1602	MDSLWGPAGAGSHPGVHNSRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNGGLSPFVP GPGPLQTDLHAQRSEIRYDQSS QTSWTSSCTNRNAISSSYSSTGG LPGLKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKV AEKAPGQTLALRNDSSRSEASR PSTRKFPLPHRRGEPLMLPPPV ELGYRVTAEDLDWEKEAAFQC IKSALQVEDKAISDCRPSRPSHT LSSLATGAS\DSAQVTSIPAPFP AASMDAGMRRTRPGTSAPAAA AAAPPSTLNRTLGSLLLEWMEA LHISGPQPQLQQVPRGQNQRSQ TSRTSSCPK/LKCHLELLQLYGR PPGTKAEEAPASSHCQLTLSSN TVSEDGPEAVSSGHTQCEKTAD TAPGQTLGPRGGSRSQSSRPR RHKFPLPRRRGEPLMLPPPLEL GYWVTAEDLDREKEAAFQRIN SALQVEDKAISDCRPSRPSHTLS SLATGASGLPAISKAPSMDAQQ ERHKS
16950	47318	A	17054	1	1155	

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16951	47319	A	17055	1	1237	MDSLWGPAGSHPFQVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNRGLSPFVP GPGPLQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSSYSSMGG LPGLKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKA ADIAPGQTLALPNDSSSTSEASRP STHKFPLPRRRGEPLMLAPP SL EVGVPGSLVKELDREKEAAFQ RINSALQVEDKAISDCRPSWPS HTLSSLATGTSGPLAISKAPSM D AQQETHKSQDCLGLLAPLASA AGVPSTAPMSGKKHRPPGPLFS SSDPLPATSSHSQDSAQVTS LIP APFPAASMDVGMRRTRRGEPL MLPPPPELG YRVTAEDLDQ EKE AAFQRIKSALQVEDKAI
16952	47320	A	17056	132	835	
16953	47321	A	17057	1	2947	MPEQDKDPRVQENPDDQRRVP KVTGDARSAFRPLRDNGVLS P F VPRPGPLQTYLHAQRSEIRYN Q TSQNTWTSSCTNQNAISSSYSS VGGLLGLKWRRGPAQESGAG MPEQDKDPRVQQNPDDHRTV PEVTGDARSAFWPLRDNGGLSP FVPRPGPLQTDLHAQSSEIRYN QTSQTSWTSSSTKRNAISSSYSS TGGLPGLKQRRGPASSRCQLTL SYSKTVSEDRPQAVSSGHTRCE KAADTAPGQTLAPR
16954	47322	C	17058	229	624	
16955	47323	A	17059	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS A RYAGTTQKWTAVALQPLSRTS LKDSSEGKSSQWAEQAVYLV VHFAWKEKWPDVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRTSAEEEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLH CYG IPHSIASDQSIHF/TTKEVQ* WAH AHGIHWSYHVSHHPEAAGL
16956	47324	B	17060	10	597	
16957	47325	B	17061	6	297	

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16958	47326	B	17062	1	474	
16959	47327	A	17063	1	2712	
16960	47328	B	17064	1	738	
16961	47329	A	17065	3	772	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHYQA QAGPEGTSNLHEEVAQMPTVS TSATLPSLPEPTQMAL\WEVPY D\QFTEEEKTGAWFTDGS AHYT GTT*KWTVAAALQPLSRTTLKDS CEGKSPHPVIAQWAHEQSGH GGRDGGYLWAQQHGFPLTKA DLAMATAECPICQQQKRTLNP
16962	47330	A	17067	1667	2012	LSPHWPPGLPPSALIYAFLGRSS RNKRRLMKTMKVEACEDLSAP KYLRIQLPTGSPRRRSEAPEVCI FQGSS\FSLVHPPPLLSYPSARR* PQTTPRPPRHPSLHPLHPPSAQ
16963	47331	A	17068	5	1074	RHSALGTGGSSSCRQQRPRDT WVPETTILTAWSS/RLQQLGPW LQVTVAGQVNTLAGIQKTIHAE HCNVTE\RPPTGHEALAPPCEQ GPPQVLDSNAVAPTADCGYQL STAINRNQELCGRKPAVSPSR/G ISPGSPILRPAVHPGHYCLQQRL SGQKSNRRTTQKSFQKLHVDK RKPENFSKESDHLLIYSREGNPD VASLATPPGIWMMSATDLFYG DPFAFPGGGPFTLSLERGPSVIL GTDASEELLFTKASLAVSTSVF QFSTGKIYTEWVWQKNKSFLSP HFPTKPMASPVKGKHSTSLQR LNYRDRWQCLQEGAGLALLSA HMKVPTGSKEPQQAGKLPSKP RKQTTPTFKD
16964	47332	A	17069	2	699	CSACPVSHPWLLPWQSGSAFSL P*RALQRPPQHGHRLSKPMQSP RLSVLLRPWPRRPLPTDLLY*PS TRGHIHLHDRHHGAPSVSRRW GDKASPPQFPRYSRDSK/RRPPQ HGEVGTVFTNNKGGQS/PATST WEVQSAECQKAPEAGPTPPSTA GDAEGANALRQSEGNWGSEA KSPHVAEAGSWRPQQGSCHHL HPPDKTKDAARKTHSPGDNGC QPRPPRPCKTLWLSRI
16965	47333	A	17070	223	1611	
16966	47334	A	17071	12	310	

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16967	47335	A	17072	31	430	LQAVRLFTLPTTSSGL*KLRTVP TWPSPPSCFPHFQSGPRTTRAPT PSTIVPGYSGSYSSGPPSLCPRTS RRAPPRHRVPAGRERLHIRVPP YPRPERHLLRVSRRGILGNRV GRLPESRAIAGRKEEKTDTK
16968	47336	A	17073	1	474	
16969	47337	A	17074	153	1224	RVFSESVCSVRNLEFLWRFAF PLAPAGRCPPGVPLQ ^T SPRDTD AHRSSPLPPARASPGQVAAAYR WARCPGCGGRKPRSSGSWQLC RCPTLPPPPRGSRSSGRC/RTWP SPPSCFPHFQSGPRTTRAPTSTI PGYSGSYSSGPGR*GLSPLHAA/ VSPPLPPGGP*GSWARAGLGS ASAHSPLCRSLIRSRS*QTCT RSPT*NCEVPPSAP*AASPLRTM FALVRTAGLKVHLLPLGYCTT MS*SSMPQTVPVVVKVSNIPS VHPP*PCCKDCTISRSRIFTRSPI CNPPGFLLPFCSPSTGQ*SL*KEP PLASWTHFRSDVLLLFVSMNG STLSLGCPSQKAVIALVQVT
16970	47338	A	17075	215	1246	
16971	47339	A	17076	566	675	QPCRQQ/CLQPGSPPRFHARTLT VTLVHTRTHTHAH
16972	47340	A	17077	184	584	
16973	47341	A	17078	1	1167	
16974	47342	A	17079	849	2266	
16975	47343	A	17080	1505	1891	DAEKAFDEIQQ/PFMIKILSRISI QGTYNVIKTIYDKPTANTILN VEKLKTFPLRTGTRQGCPLSAL LFNMVLEVIARAIRQEKGIGIQ ISKKEVKLSLFADDMIVHIENPK DSSRKLELIKEFSKV
16976	47344	A	17081	1	842	
16977	47345	A	17082	155	531	GNLWSVDLRPGTPLRQNFRGTI RQQHSRFTKNHCSQTPLLIPRQ TGSGVDLSKLQQTCS*GSCLCV TIDLANAFFSIPVHKA/HQKQFA FSWQY ^T TFTVLPRLTWLQPC*V PNLPAAETNTEPSNGT
16978	47346	A	17083	1	1773	
16979	47347	B	17084	598	1428	
16980	47348	A	17085	3	227	
16981	47349	A	17086	1	207	

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16982	47350	A	17087	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLPKDPKHHCG PPVKVGAYGGQVINGVLAHPL IWLTVQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLEQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQQQYFTVLP QWYINSPALCHNLIRRDLCFS LPLDITLVHYIDIMLIGSSEQE VANTLDFVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ
16983	47351	A	17088	1	435	
16984	47352	A	17089	2	808	PLIWLTVQKTDGS/WRMTVDYC KLNQVVIPIAAAVSDVVSLEQI NTSPGTWYAAIDLANAFFSIPV HKAQQKQFAFSWQQQYFTV LPQWYINSPALCHNLIRRDLC FSLPLDITLVHYIDIMLIGSSEQ EVANTLDFVRHLRARGWEINP TKIQGPSTSVKFLGFQWCGACQ AIPSKMRDKLLHLVPPTTKKEA QCL\QLLACY/WALVETEHLTIS HQVTMRPELPIMNWVLFDPSSH KVGCAQQHSIIKWVYVHDW ARAGPEGT
16985	47353	A	17090	2	544	
16986	47354	A	17091	1	633	MTVDYRKFNQVVTPTMAA/AVP DAVSLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
16987	47355	A	17092	1	3228	MVTSSLTVAITSLVVVITSLVVII TSFVVVTTSLVVVITSLVVVITSI AIAIATLVVVLTFVTVVLTSLV VVTTSLSVMVITPPFAVITSLGVV ITSLVVIITCLVLVITALGVVITS LGVVVTSLVMVITPLVAVITPL GVVITSLVVVITSLVMVITSLTV VITSSIVVITPLVMVITSLTVIITS LFVVITPLVMVITFLIVVNTSLV VVLITLIVSPPPSLCSLVVVITFL VVAITSLVVVITSLVVVITSL
16988	47356	A	17093	1	471	
16989	47357	A	17094	1	1590	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16990	47358	A	17095	332	1704	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQYTF TVLPQWYINSPALCHNLIRDL DCFSLPLDITLVHYIDDIMLIG\ P RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCGHG GRDGGYAWAQQCRLPLTKAD LNTATAKRPICQQQRPTLSPQY GTIPQGDQPATWWVVDYMG LPSWKQGQRFVLTGIDTYSYGF AYPACNASAKTAICGLTECLIH HHDIPHSIASDQGFHMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQLQCQLGD NTWQGWGKVLQKVYALNQH PIYGTVSPIAKIHRRVADSLKGG SGSWVWGFSTLAALDNDLGTF RKVRAPSTN
16991	47359	B	17096	1	2061	
16992	47360	A	17097	1	1623	
16993	47361	A	17098	1	741	
16994	47362	A	17099	213	679	
16995	47363	A	17100	33	853	
16996	47364	A	17101	3	1249	
16997	47365	A	17102	17	770	
16998	47366	A	17103	130	469	
16999	47367	A	17104	1	1425	
17000	47368	A	17105	1	882	

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17001	47369	A	17106	227	1519	VTLIKMNAMLETPTLSAVSDG VKLSAVAAVLVIVRCMNLKS ATAAPDLYLQDSGLSRFLKSC PLLTKEYIPPLIWGKSGHIQTAL YGKMGRVRSHPYGRKFITM SDGATSTFDLFEPLAEHCVGDD ITMVICPGIANHSEKQYIRTFVD YAQKNGYRCAVLNHLGALPNI ELTSPRMFTYGCTWEFGAMVN YIKKTYPLTQLVVVGFSLGGNI VCKYLGETQANQEKVLCCVSV CQGYALSARQETFMQWDQCRR FYNFLMADNMKKIILSHRQALF GDHVKKPQSLEDTDLRLYTAT SLMQIDDNVMRKFFHGYNLSKE YEEESCMMRYLHRIYVPLMLV NAADDPLVHESLLTIPKSLSEKR ENVMFVLPLHGGHLGFFEGSVL FPEPLTWMDKLVVEYANAICQ WERNKLQCSDETEQVEADLE
17002	47370	A	17107	21	385	SRSSSVVRQEPGRADGQRRRRR GGPGLRSPGERQQPRPARPCRR AHHPGDPAGA/P/PPKTGKTCG APKATTRSTRCSISR*PPFPRSSC PTSPRATPSSASSTAAMRRWL VTCRMPNWA
17003	47371	A	17108	158	423	
17004	47372	A	17109	1	1851	
17005	47373	A	17110	1	1104	
17006	47374	A	17111	66	432	
17007	47375	A	17112	103	3531	
17008	47376	A	17113	1	1311	
17009	47377	A	17114	1	750	
17010	47378	A	17115	183	373	QPQATTLVHPVHVA*LF*VHW QNRYPADNQGYRHWRCLLPA LPDAGR/VRLSASC*KPPNSRG
17011	47379	A	17116	344	480	SPKDQEPSISKKV***TSLPTSSR SLCLPPARMHFWVLAALLSFA
17012	47380	A	17117	3	3565	HEARRGLKMAACGRVRRMFRL SAALHLLLFAAGA/RNSPARA SHSQGQGPANFVSFVGQAGG GGPAGQQLPQLQSSQLQQQQ QQQQQQQQPQPQPFPAGGPP ARRGGAGAGGWKLAEESCR EDVTRVCPKHTWSNNLAVLEC LQDVREPENEISSDCNHLLWNY KLNLTDPKFESVAREVCKSTIT EIKECADEPVGKGVMVSLVD HRGNITEYQCHQYITKMTAIFS DYRLICGFMDCKNDIN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17013	47381	A	17118	1	495	PDRRRGCPALSGS*SGPAPRL/C LCNPTLTFHPGSVIGVCL*RHW LCRANTRHPSYRGRLSSR
17014	47382	A	17119	1	1479	
17015	47383	B	17120	67	8652	
17016	47384	B	17121	67	9183	
17017	47385	A	17122	1	1440	
17018	47386	A	17123	1	422	FRWKELDRPLEPSPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLSDYPPL QQFFVVMHCLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPGLNEFYEHYHALM MEEEGAVIVG
17019	47387	A	17124	2	587	WMGSCGLHRAWLQMRWWPE SAWKELDRPREPPPPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLSDYPPL QQFFVVMHCLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPGLKTPLGRARAW LRLALMQKKMADYLRCLIIQR DLLSEFYEHYHALMEEEGAVI
17020	47388	A	17125	312	493	
17021	47389	C	17126	102	278	
17022	47390	A	17127	2	140	KAHNCSGLERPPLDNPSVSNRL FASFLSPRDLKGR\ICSD*SQVL
17023	47391	A	17128	1	2051	
17024	47392	A	17129	1	498	
17025	47393	A	17130	2	340	
17026	47394	A	17131	140	396	
17027	47395	A	17132	703	912	
17028	47396	B	17133	201	912	
17029	47397	A	17134	1	1382	
17030	47398	A	17135	2	431	
17031	47399	B	17136	99	1151	
17032	47400	A	17137	1	891	
17033	47401	A	17138	15	2722	

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17034	47402	A	17139	476	2934	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLRFIWNQKRARIAKAI LSQKNKAVGITLPDFKLYYKAT VTKTA WYWYQNRDIDQWNRT EPSEITPLIYNYQIFDKPEKNKQ WGKDSL FNKWCWDNWLAI CR KLKLDPFLTPYTKINSRWIKAL NLRPKTIKLEENLGITIQDIGTG KDFMTKTPKAMATKDKIDKW DLIKLKSFCTAKETTIRVNRLPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWEKDMNR HFSKDDILAAKKHMKKCSSLAI REMQIKTTMRYHLTPVRMAIHK KPGNNSQKDIPDWRNGPKRKD RQITTFRGPTKLQVVVPTLGAA PGRGCPWPRRPRCPGREGEELH PALGGERGQRQAAGSGGARRL APSAGDGLCVGPVEDTGETQT WKTGQPGLREPWWGWRPTEPP PAPSSHSEEWPRRPPVRRAPRP AGEHAGEGGA AVADTTAFSPW LPRVGGWHLQVHRGGRSCAGA RRFGGSRGWDLGDLSSAPVASL
17035	47403	A	17140	1	2298	
17036	47404	A	17141	3	482	
17037	47405	A	17142	1	1026	
17038	47406	A	17143	1	623	
17039	47407	A	17144	25	392	ESLKGADPKFLRNMRFANKHN KKGLKKMQANSARATSARAD AIKALVKPKEGKPDIPKGVSRK LDPLAYIAHPRLGKCAHSCIAK GLKLCRLQAKDKDQTKAQAA APA*APKGARTPTKASE
17040	47408	A	17145	1	507	

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17041	47409	A	17146	2	811	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTY\VGPKFLRNTRFAKKHNK KGLKKMQANNAKAMSAR\AE A\KALVKPKKEVKPKIPKGG\SR KLRSTLPDIVHPKLGKSARAPY LPRGFRLCLPNANAKSISSQGG GQGQGGQSNQGGPKPQLQVP ASGVPNVPRALTKGFQSRYSLA QHEGQERTWVRPPTPRPWGYH FAWGWGSPVAICTNKPEAGKR RNEKEKLCQGDGY
17042	47410	A	17147	1	636	
17043	47411	A	17148	169	410	
17044	47412	A	17149	385	1359	QTNSPNCVRGRVSPVLPGSSS MDVLASYSIFQELQLVHDTGYF SALPSLEETWQQTCLELERYLQ TEPRRISETF\GEDLD\CFL\HAFP SPCIEESFRRLDPLLLPVEAAICE KSSAVDILLSRDKLLSETCLSLQ PASSSLDSYTAVNQAQLNAVTS LTPPSSPELSRHLVKTSQTL SAV DGTVTLKLVAKKAALSSVKVG GVATAAAAVTAAGAVKSGQS DSDQGGLGAEACPENKKRVHR CQFNGCRKVYTKSSHLKAHQ THTGEKPYKCSWEGCEWRFAR SDELTRHYRKHTGAKPFKCNH CDRCFSRSDHLALHMKRHI
17045	47413	A	17150	1	948	
17046	47414	A	17151	400	446	PSFLR*PSFWSREFH
17047	47415	A	17152	7212	10914	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLDGDRAFHRLNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17048	47416	B	17153	1	14934	

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17049	47417	A	17154	999	3009	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGSLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRRLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSVDTVAV GLVSSVVVYPVYLAILFLFRMS RSKVAGSPSPTPAGQQVLDIDS CLDSSVLDSSFLTFSGLHAEVRT LLGVLGWAGGPAALQGLKT LCTSQQAFVGQMKSDLFLDDS KSLVCWPSGEGTLSWPDLLSDP SIVGSNLRQLARGQAGHGLGPE EDGFSLASPYSPAKSFSASDEDL IQQVLAEGVSSPAPTQDTHMET DLLSSLCAEVHTALPLHCSCLO DSVQWHA VQGLPAFCRGDPVT QEAQETARPAQAQNLVLIPLHAA PHQAVAEIDALYDVYLDVIDK WGTDMLFLGDFNADCSYVR AQDWAAIRLSSEVFKWLIPDS ADTTVGNSDCAYDRIVACGAR LRRSLKPOSATVHDFQEEFGLD QTQASGPWGGAGLGSPPPGRT QAAGRALAISDHFPVEVTCLKFH
17050	47418	A	17155	242	363	TKRQENGRKKQDRTPTEQQLR VK*KSRSTKRRKQSRSES
17051	47419	B	17156	1	12879	
17052	47420	A	17157	3	596	NLLFPVRSERGPFRPTPLSWLW LRPCELNKLAAAGGLAAGSSRA GALYLLIYIPRRPARAAPLCPAA ATGAPGASAGSASPASARPPGL ARAAPGPLRGRRPRSPRTPFCV/ WLGVSLLLSYQHYFAEPFESFQ VCCRHCILCLTIRVHFPCLSAN PFHFSQLHLGPRPGKACHSVGL QIYNSQAHSHPSSQQRQLFC
17053	47421	A	17158	1	235	FFFVLYNLFLFVITSIPLQKVSIL TQRQLVAEENVKCCTVPEPQ** *LSNYPIFVEMGFCHVGPGWSR TPTPKSVSR

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17054	47422	A	17159	256	4064	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17055	47423	A	17160	2	347	LTSRGP/LCCVLLICLFLGANAV WYGAVGDSAYSTG/LCVQAEP AERRHSRCWPGVQRGCLSRP GHPLSLPDVPEQGGWEPEPHTC RAAGAGRRQLPGLNPCWTAPS SRSEASTLR
17056	47424	A	17161	9415	9994	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SKASFRVPTPSRSPVALPAPAGG
17057	47425	A	17162	1030	1222	
17058	47426	A	17163	2	2762	
17059	47427	A	17164	25	115	
17060	47428	A	17165	1	383	
17061	47429	A	17166	120	596	IKAPCASFPTSGFPGQRRSFVGR SSSTPEECGHSELGRNEDKASR GRIRQQ/PFAVLKYLLFCSLRW* YPGKQGLEWTSSKLQQTCKRY RERHKDTPQEEQLQDT*LSG/V TK/G*NEGKNVKGSQRERSGYS QREAHQTNRSRLGRNSTSQKRV GASIQRS

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17062	47430	A	17167	1	2236	RPSGPQPLPGSVRHPRPVLRRPL PRAQGSSSSFRPPPFAPDTMD KFWWHAAWGLCLVPLSLAQID LNITCR\FAGVFHVEKNGRYSIS RTEAA\NLCKAFNSTLPTMAQM EKALSIGFETCRYGFIEGHVVIP RIHPNSICAANNTGVYILTSNTS QYDTYCFNASAPPEEDCTSVTD LPNAFDGPITITIVNRDGTRYVQ KGEYRTNPEDIYPSNPTDDDV SGSSSERSSTSGGYIFYTFSTVH PIPDEDSWITDSTDRIPATSTSS NTISAGWEPNEENEDERDRHLS FSGSGIDDED FISSTISTTPRAF DHTKQNQ\DW\TQW\NPSH\SNP EVLL\Q\TTTRMTDVDRNGTTA YEGNWNPEAHPPLIHHEHHEEE ETPHSTSTIQATPSSTTEETATQ KEQWFGNRWHEGYRQTPREDS HSTTGTAASAHTSHPMQGR TPSPEDSSWTDFFNPISHPMGRG HQAGRRMDMDSSHSTTLQPTA NPNTGLVEDLDRTGPLSMTTQ QNSQSFSSTHEGLEEDKDHPT TSTLTSSNRNDVTGGRDPNHS EGSTTLLEGYTSHYPHTKESRT FIPVTS AKTGSGFVTA VTVGDS NSNVNRSLSGDQDTFHPSGGSH TTHGSESDGSHGSEQEGGANTT SGPIRTPQIPEWLII LASLLALALI LAVCIAVNSRRRCGQKKLVIN SGNGAVEDRKPSGLNGEASKS
17063	47431	A	17168	1	1980	

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17064	47432	A	17169	362	2551	EDFSTSATTPSSSPRELPSGQGL WLCWLELLPSFTRNGVVHTGP C*GLC*RWQLSPQPSLPSNFGM KISDMATLITTPAA/FSSSSDW NTPAPTQSPPEVRLHLCTSM DMLKVGQGEAAAGLVQNP SGHALGCLDSAASGISDPSVAV LLENVPNQRGESLRCPVYLGG WNCSEKMGMDSGQFGEEKGAH DPSPTYHACLSTQWWPSPESP YPQPSGPQVKEPRNPGKSISML CLWIRYHAADSGSSRAKLPLEE RLRPFSPTHDCLAFPLPLEKRPE GNVGSRCPSGTLPEEGSGSNI CCSAIFPVLQPPLVIPRQTRSGV DLQQTPTDLQLRDLTDRSSLPA MEQSWIENDFDELNRSRLQKA NKLENLEETDKFLDTYTLPRLN QEETESLNRPTGSEIEAIINNVP TKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDAEKAFDNIQ QPFMLKTLNKLIGIDATYTKIIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILPKSGPSAARLLEFAGG PLQTLFAWVSPEEAAEQQILPN
17065	47433	A	17170	1	483	
17066	47434	A	17171	52	321	
17067	47435	A	17172	274	393	
17068	47436	A	17173	304	415	
17069	47437	A	17174	321	796	
17070	47438	A	17175	1	198	
17071	47439	A	17176	2	454	CRPVPAATNGRCFPATPRDPGP RMRRACAWGRSKGAGRCLRR ATRRDKMAKKESILDLSK\YID\ KTIRVKFQGGGRK\ASGILKGFEP NLL\NLVLTVTI*YMRDPDDQY KLTED\TRQLG\LVVFRG\TSLVL \ICPDGMEAI\NPFIQQQDA
17072	47440	A	17177	1	1806	
17073	47441	A	17178	1215	2065	
17074	47442	A	17179	217	441	
17075	47443	A	17180	117	296	DWSDIQKLG*SLSLSKEIFQL*IV SPPALHPAKLLHRSA*LSVPQIG RECQGCWTAMC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17076	47444	A	17181	2	138	LRTAPEFPGRRFRGCAAAAES VAALL*STPPCRSGDSLCKGSR
17077	47445	A	17182	222	760	
17078	47446	A	17183	192	244	YIQPVF*GWTLCGCCQFF
17079	47447	A	17184	1	990	
17080	47448	A	17185	1	2196	
17081	47449	A	17186	459	1387	
17082	47450	A	17187	2	454	
17083	47451	A	17188	1	957	
17084	47452	A	17189	398	553	
17085	47453	A	17190	2	293	
17086	47454	B	17191	53	182	
17087	47455	A	17192	3	1114	
17088	47456	A	17193	1	1024	SVVEFIPSCAVVLWSSVLLSPVR LLSYLSGVPPGHPMEDSMDMD MSPLRPHNYLFGCELKAGQDY HFKVDNDENEHQLSLRTVSLG\ AGAKDELH\IVEAEAMYEGSP IKV/THLATLKMSVQPTVSLGG \FEITPPVV\RLKCGSGP\HISG QHLVA\VEEDAEESEDEEEEDVK/ LSLSISGKRSAP\GGGSKVPQKE RKTCLMKDDDD\DDDEEDGYD EDD\DDDDDDF\DEEAEEKAP SERNLRYRDT\PAKNAQKSNQNG KDSKPSSTPRSKGQESFKKQEK TPKTPKGPSSVEDIKAKMQASI A/EKGGSLPKVEAKFINYVKNC FPMTDQDAIQDLWQWRKSL
17089	47457	A	17194	2	291	
17090	47458	A	17195	185	307	
17091	47459	A	17196	3	392	VRGGQAFRQRPAPPLPVTRSAH RGRRPTRASQPSLFHLLREGK MSESSKSSQPLASKQEKDGTE KRGRGRPRKQP\PVSPGTALVG SQKEPSEVPTPKRPRGRPKGSK/ NKLEKEEEEGISQESSEEEQ
17092	47460	C	17197	76	378	
17093	47461	B	17198	1803	1905	
17094	47462	A	17199	1	416	
17095	47463	A	17200	30	407	
17096	47464	A	17201	1	993	
17097	47465	A	17202	1	1287	
17098	47466	A	17203	1	2004	
17099	47467	A	17204	1	1368	
17100	47468	B	17205	1	3035	
17101	47469	B	17206	1	981	
17102	47470	A	17207	1	2017	
17103	47471	A	17208	1	1069	
17104	47472	A	17209	1	2463	
17105	47473	A	17210	1	324	

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17106	47474	A	17211	51	1528	GREASKMAQTQGTTRRKVCYY YDGDVGNYY*G\QGHMPKP\HR IRMTHNLLLNLYGLYRKMEIYRP HKANADEMTKYHSDDYIKFLR SI/RVPDNIVGSTSKQMQRFNVG EDFPSIPMACFEFCQLSTGGSVA KCL*NFNKQQTDI AVNWAGGL HHAKKSEASGFCYVNDIVLAIL ELLKYHQRVLYIDIDIHHGDGV EEAFYTTDRVMTVSFHKYGEY FPGTGDLRDIGAGKGKYYAVN YPLRDGIDDES YEAI FKPVMSK VME MFQPSAVVLQCGSDSLSG DRLGCFNLTIKGHAKC VEFVKS FNL PMLMLGGGGYTIRNVARC WTYETAVALDTEIPNELPYNDY FEYFGPDFKLHISPSNMTNQNT NEYLEKIKQRLFENLRMLPHAP GVQMQAIPEDAIPEESGDEDED DPDKRISICSSDKRIACEEFSDS EEEGEGGRKNSSNFKKAKRVK TEDEKEKDPEEKKEVTEEEKTK EEKPEAKGVKEEVKLA
17107	47475	A	17212	1	492	
17108	47476	A	17213	1	1851	
17109	47477	A	17214	1	753	
17110	47478	B	17215	427	614	
17111	47479	B	17216	1	711	
17112	47480	A	17217	750	1173	
17113	47481	A	17218	1	1224	
17114	47482	A	17219	1242	1743	
17115	47483	A	17220	423	1739	
17116	47484	A	17221	117	1183	
17117	47485	A	17222	1	377	FRRGAW/VPLLTRWGFPRGGC ISNDSPRRS/IHYRETKPEPPVRV CARGLQRTPSAGHRAVLRMPR RGRTRPGAPQGG AALGGPARD RECACAGRGAQT FALRKNCVC KMPSGRGR TCSKNFSYFPS
17118	47486	A	17223	331	1134	
17119	47487	A	17224	178	1200	
17120	47488	A	17225	1	367	
17121	47489	A	17226	85	3360	
17122	47490	A	17227	8	930	
17123	47491	A	17228	1	765	
17124	47492	B	17229	120	509	
17125	47493	A	17230	232	3187	
17126	47494	A	17231	1	999	
17127	47495	A	17232	1	325	
17128	47496	B	17233	1	535	
17129	47497	A	17234	271	634	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17130	47498	B	17235	301	523	
17131	47499	A	17236	1	1185	
17132	47500	A	17237	178	497	LPVPAYELNGSQQLPLLGLAAA IGYLA YKR FYVKDHRNKAMIN LHIQKDNPKIRHAFDMEVDLGD KAV\YCRCWRSKKFPFCDGAHT KHNKEVTGDNVGPLIIKKKET
17133	47501	B	17238	184	395	
17134	47502	A	17239	1	103	PAWHEGQPQPESECPQRQCIC SHGRGTPARCGVSY*ART/PAG ESP*TQQDLRAS*LGTRANHSQ RASARHKDSASAVTGAGHQRD AE
17135	47503	A	17240	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSRCPSESRLSPGG QRLGFPSSVLNCSKCSWQLAAC MGFSF
17136	47504	A	17241	265	890	
17137	47505	A	17242	1	1374	
17138	47506	A	17243	1	6189	
17139	47507	A	17244	1	8277	
17140	47508	A	17245	178	1177	
17141	47509	A	17246	1	447	
17142	47510	A	17247	1	465	
17143	47511	A	17248	3	3910	
17144	47512	A	17249	2	1871	
17145	47513	A	17250	1	666	
17146	47514	A	17251	1	635	FPGRFRRAVWCTHCCAPTPSG PVLPHSAAMSFLKSFPFPGPAE GLLRQQPDTEAVLNGKGLGTG TLYIAESRLSWLDGSGLGFSLE YPTISLHALSRDRSDCLGEHLY VMVNAKFEEESKEPVADEEEE DSDDDV EPI TEFRFVPSDKSAF* FPCSVEAMFTAMCECQALHPD PEDESDDDYDGE EYDVEAHEQ GQGDIP TFYTYEEGLS
17147	47515	A	17252	1	2796	

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17148	47516	A	17253	1	2393	MEIRGALDLRKRQVLIFLVLLG LSRAGTESAHYSVAEETEIGSFV ANLARDLGLGVEELSSREARV VSDDNKKYLHLDLLTGNLLLN EKLDRELCGSTEPVLHFQVV LENPLQFFRFELCVKDINDHSPT FLDKEILIKISEGTTVGATFLME SAQDLDVGSNSLQNYTISPNSH FYIKIPDSSDRKIYPELVLDRAL DYEQAELRLTLTAVDGGSPPK SGTTLVLIKVLNDINAPEFPQS LYEVQVPEDRPLGSKIATISAK DLDAAGNYGKISYTFHASEDIR KTFEINPISGEVNLRSPLDFEVIQ SYTINIQATDGGGLSGKCTLLV KVMDINDNPPEVTISSITKRIPE NASETLVALFSILDQDSGDNGR MICSIQDNLPFFLKPTFKNFFTL VSEKALDRESQAEYNITITVTDL GTPRLKTEYNITVLLSDVNDNA PTFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVNYSLLPP QDRHLPLASLVINADNGHLFA LRSLDYEALQEFEFRVGATDRG SPALSSEALVRVLVDANDNL PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDGSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQQAQADLL TVYLVVALASVSSLFLLSVLLF
17149	47517	A	17254	89	1283	
17150	47518	A	17255	1	276	
17151	47519	A	17256	2	259	WQGGILGSDPTPPLTSPNLLQT ACFREERDV/RRERGQPLGDHS ALCLPRRGVPVPCDGLLCWWG PPDAAEPLRGPSPARAGPVLPG
17152	47520	A	17257	624	4055	
17153	47521	A	17258	3	1784	
17154	47522	A	17259	1	1272	
17155	47523	A	17260	3	576	
17156	47524	A	17261	1	1017	
17157	47525	A	17262	1	1107	
17158	47526	A	17263	256	634	
17159	47527	B	17264	76	1340	

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17160	47528	A	17265	1659	2107	NLLCCTCSPFSSPV SAPQTCTSN C IALLVHQQWL VSSHLQKHF LHLHIFLA\LIVFNFSLSHF*IFDF DPWKLPP*PISPTLSSLPSNRHIA LILPCSCMTEDDFDKMPPAVAR YMTSPQAVHIIAVCPFKASRKV SHSSLKIWLFKSV
17161	47529	A	17266	248	540	KFFSLRMLNINPHCLLACRVSA ERSA VSLMGFPLCISRPFSLAAL NIFSISTLVNLMHISLGVALLEE YLCGILCIS*IGMLACLARLGKF SWIIR
17162	47530	A	17267	4880	5121	
17163	47531	A	17268	468	602	CLQLCSFGLGLTW*CGLFFYST *TLK*FFPIL*RMMVVF*WGLH
17164	47532	A	17269	359	462	
17165	47533	A	17270	457	600	LWWFNALFLCWLTSTLTTLLE LHECLPVWRD*TRRHLTGWSK GSCTN
17166	47534	A	17271	2405	2830	TPVFRFIALSYTFADSDGEYF*IL LSENQRFFKCCFNMRSNKIPW DTFANSIKGAEFSGKH FITEFISS SESESESESTRFRDRGLETSSSL SLDSFSLLGDDFLSFLSFTIDA VSSKRLSKEIRKARLCWRFPRI
17167	47535	A	17272	1	2172	
17168	47536	B	17273	446	625	
17169	47537	B	17274	1	2604	
17170	47538	A	17275	1	3039	
17171	47539	B	17276	1	1383	
17172	47540	A	17277	1	993	

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17173	47541	A	17278	3	2494	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYSKIDHIVGSKTLISKCKRTE IITNYLSDHSAIKLELRIKNLTQS RSTTWKLNLLLLNDYWVHNE MKAEIKMFFETNENKDTTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKNREKNQIDTIKNDK GDITTNPTIEIQTIREYYKHLA NKLENLEEMDTFLDYTLPRLN QEEVESLNRPIGTSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASHILPKPGRDTTKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQGMQGWFNHHSI NVIQHINRAKDKNHMISIDEK AFDKIQQPFMLKTLNKL/G/DKI PRNPTYKGCEGPLQELQTTAQ GNKRGHKQMEHSMMLGRKN QYHENGHTAQG/IL*IQCHPHQ ATNDFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QP*EKQAMGKGFP**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RFKR*T*NHKNPRRKP RHYHSGHRHGQGLHVQNTKSN
17174	47542	A	17279	285	502	
17175	47543	A	17280	1	3189	
17176	47544	B	17281	1	1235	
17177	47545	A	17282	1	3139	
17178	47546	B	17283	1	1779	
17179	47547	B	17284	1	3127	
17180	47548	A	17285	1	3325	
17181	47549	A	17286	1	3145	
17182	47550	A	17287	1	1095	MIMGDFNTPLSTLDRSTRQKVN KDIQELNSALHQAADLIDIYRTLH PKSTEYTFFSASHLTYSKIDHIV GSKALLSNCKRTEIITNYLSDHS AIKLELKIKKLTPNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAEC RGKFIALNAHKRKQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAELEMETQKTLQKINE SRG/WKKFLEKLCFIELS*ARRI

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17183	47551	A	17288	1	3229	
17184	47552	A	17289	1	1205	
17185	47553	A	17290	1	986	
17186	47554	A	17291	1	3170	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLS DG S AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDTFKAV CRGKFIALNAHKRKQERP KIDT LTSQLEKEKQE QTHSKASRRQ EITKIRAE LKEIETQKTLQKIN*S QSWFFERVKKIDRPLARLIKKK REKNQIDTIKND
17187	47555	B	17292	1	2148	
17188	47556	A	17293	1	1416	
17189	47557	A	17294	1	3099	MGELITPLSTLDRSTRQKV N KD TQELNSALHQGD LIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLS D H S A IKLELRIKNLTQNRSTTWKLN N LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQE QTHSKASRRQEI TKIRAE LKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
17190	47558	A	17295	1	3345	
17191	47559	B	17296	1	3122	
17192	47560	A	17297	1	2118	
17193	47561	A	17298	965	4091	
17194	47562	B	17299	15	2762	
17195	47563	A	17300	1	3049	MTVKVRITVTSGKKPPWLIPRQ TGYGVDLWQTPTDLQLRVLT V RRKTNKQKGHPHQNPIC TSPSS KTKDRSTRQKV N KDIQELNSAL HQEDLIDIYRTLHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKW KRTEITANCLSDHSAIKLELRIK KLTQNWSATWKLNNLLLND C WVHKEMKAEIKMFFETK\ENK\ DTTYQNLWDAFKA\VCRGKFIA LNAHKRKQERSKIDTLTSQLKE LEKQE QTHSKASRR

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17196	47564	A	17301	3	4101	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNNPLLND YWVHKEMKAEIKMFFETNENK DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQLKE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
17197	47565	A	17302	1	3234	MANKNNQCREVLKGPDELKT MAREPHDKCTSFSSQFDQLEER VSAMEDQMNMKREEKFREK RIKRNEQRLQEIWVYVVRPNLC LIGVPESDGENGTLENTLQDII QENFPNLARQANIQIEIQRMF QRYSLRRTTPRHIVRFTKVM KEKMLRAAREKGRVTHKGKPI RLTADLSAETLQARRESTRQKV NKDIQELNSAQHQADLTDNYR TLHPKSTEYTLFSAPHHTYSKID HIVGSKALLSKCKRTEI
17198	47566	A	17303	1	3390	MLTLNHNRLTDAILNISTCLSR HLDLNTGGKKRISYKRNLYME EHLEGLCSNEFTWENSTIMTDS QMLMHREEPGSLPNIPILSIVFT NNRSKRQKVNKDIQELNSALH QADLIDIYRTLHPKSTEYTFESA PHHTYSKTDRIVGSKALLSKCK RTEIITNCLSDHSAIKLELRKKL TQNCSTTWKLNNLLNDYVW HNEMKAEIKMFFETNENKDTT YQNLWDTFKA VCRGKFIALNA HKRKQERSKIDTLTS
17199	47567	B	17304	1	2427	
17200	47568	A	17305	1	4257	
17201	47569	A	17306	1	3726	MVVKTNARELRDECTSLSSPFN QLEERSVSMENQMNMKMQEE KFREKRIKRNEQSLQEIWVYV RPNLCIGVTESDGENGTLEN TLQDITQENFPNLARKANIQIE TQRTQRYSSRRATLRHIVRFT KVEMKEKMLRAAREKDFTPTK IKRDKEGHYIMVKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLSHTLIMGDFNTSLTLDR SMRQKVNKDTQELNSSLHQAD LIDIYRTLHPKSIE
17202	47570	A	17307	1	1059	

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17203	47571	A	17308	130	1092	
17204	47572	A	17309	1	924	
17205	47573	A	17310	1	1206	
17206	47574	B	17311	1	1257	
17207	47575	A	17312	1	685	MEILRICKLTISKELLDGSSRL TMTHYKHRYFSHSAEEQIISEEL NESEMICQHHHTAENDFDELRE EGFRRSVITNFSKLKEDVQTHF KEAKNLEKRLDEWLTRINSVEK TLNDLM*LKTVA*ELRDTYTSF NSRFDQVEERVSVIEDQMNE EREKFKREKRV*RNEQS/LQEIW NYVKRPNLHLIGVSEIDRENGT KLENTLQDIFQENFTYLARQAN IQIQEI
17208	47576	B	17313	70	1227	
17209	47577	B	17314	640	751	
17210	47578	A	17315	1	2328	MGVSGAQPGRSCWHRSSSTGSQ GLGPVPEPADCGGEAAGRARE EGTVSLTMGTADSDEMAPEAP QHTHIDVHIHQESALAKLLTLC CSALRPRTQARGSSRLLVASW VMQIVLGILSAVLGGFFYIRDY TLLVTSGAAIWTGAVAVLAGA AAFIYEKRGGTYWALLRLLTL AAFSTAIAALKLWNEDFRYGYS YYNSACRISSSSDWNTPTQSP EEVRLHLCTSFMDMLKVGGQ GEGAAAGLVQNPSGHALGCLD SAASGISDPSVAVLLENVPNQR GESLRCVPVYLQWNCSETG MDSGQFGEEKGAHDPSTYYH ACLSTQWWPSPESPYPQPSGPQ VKEPRNPGKSISMLCLWIRYHA ADSGSSRAKLPLEERLRPFSPH DCLAFPLPLEKRPEGNVGSRCP SGTKLPEEGSGSNICCSAIFPVL QPPLVIPRQTRSGVDLQQTPTD LQLRDLTVRRKTNKQKGHPHQ NPMCTSPSSKTKEKEDVRTHH KEAKNLEKRLDKMIVNRINSVE KTLNDPMELKTQARELHDKCT SFSSRFDQLEERVSVTEDQMNE MKREEKFKREKRVKRNESLQ IRDYVKRPNLCLTGVPESDGEN ETKLENTLQDNIQENFPNLARQ ANIQIQEIQRTPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAGE KGQVTHKGKGPITLTADLLAETL
17211	47579	A	17316	508	666	
17212	47580	A	17317	622	780	

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17213	47581	B	17318	1	777	
17214	47582	A	17319	1	508	MSGFEKQYKKIRLDKTLDSENE GLELPVPAKRSNLGVRLYACC GLLLCPAYPQHFAHGYVDKIPG YPGRAGTLTGLHPMQVCRCRR QAPCLKSNNALIVILGTVTLDA VGIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPK YKLPSSENTTNTSMQIN
17215	47583	B	17320	310	1047	
17216	47584	A	17321	1	1101	
17217	47585	A	17322	577	735	
17218	47586	A	17323	337	642	
17219	47587	A	17324	2	653	
17220	47588	A	17325	2	935	
17221	47589	A	17326	532	729	
17222	47590	A	17327	1	675	
17223	47591	A	17328	1	684	
17224	47592	A	17329	2	641	
17225	47593	A	17330	1	808	
17226	47594	A	17331	562	675	
17227	47595	A	17332	2	1687	DTGNNEWKQQEGLSHNNWL LGCLFGPETPIFYPATLGHTSSI YERKKEDKNGMKEEHDTVA MFFTLFNFQISVENIRKGP GESIAQSYLNVVQEIFRSR LLQDLTRDLCNLTCTSHGS VMAETAVINHKKRKNSPR NDLTEAAYSLSRDQKRMLY VDQIRKSDGTLQEHGICEI AKYAEIFGLTSAEASKDIR KSFAGKEVVFYRPEEDAG GYESFPWFIKQRSNLGVRL CGLLLCPAYPQHFAHGYVD GYPGRAGTLTGLHPMQVC RQAPCMKSNNALIVILGT AVGIGLVMPVLPGLLRDI SIASHYGVLLALYALMQFL VLGALSDFRGRPVLASLL TIDYAIMATTVPVRGHSV HKSVENLQPDNVIEKKIP FKPAAEICKSNRELVNHQ ENVSRAQRPLQLPSQAW RRKNWFCGPGWSPFSVQ LVPCVPAAPALTKRGQGT VASEGGSPKPWQLPHGV AQKSRAEVWEPPPRFQKM
17228	47596	B	17333	12	60	
17229	47597	B	17334	253	2103	

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17230	47598	A	17335	469	2512	PTSAYERGQRFASRLQMNLLLEY FLRWLMKIFPQAPCMKSNNA LIVILGTVTLDAVGIGLVMPVL PGLLRDIVHSDSIASHYGVLLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYAIMATTP VLWIYPLVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELN NDYTLKKVMKPLITSNTVTDEI ERANVFKMNGKWYLFDSRGS KMTIDGIKLNDIYMLGFVSNLS TGPYKPLNKTGLVLQMVLDPN DVTFTNFYLPGPQAKANMWLL QAHDKKSFSRIKGTFGPAL
17231	47599	A	17336	2393	2945	
17232	47600	A	17337	980	1732	

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17233	47601	A	17338	1	2400	GRPFPRPPRLCQRRRLRGGGRMK MTGDFEECLKDSPRFRAALEEV EGDVAEELKLDKLVKLGAMI DTGKAFCVANKQFMNGIRDLA QYSSNDVVETSLTKFSDSLQE MINFHTIL/L*PNSEINLRHSFSN FVKEDLRKFKDAKKQFEKVSE EKENALVKNAQVQRNKQHEVE EATNILT.ATRKCFRHIALDYVL QINVLQSKRRSEILKSMLSFMY AHLAFFHQGYDLFSELGPYMK DLGAQLDRLVGDAAKEKREME QKHSTIQKDFSRDDSKLKYNV DAANGIVMEGYLFKRASNAFK TWNRRWFSIQNNQVVYQKKFK DNPTVVVEDLRLCTVKHCEDIE RRFCFEVVSPKSCMLQADSEK LRQAWIKAVQTSIATAYREKG DESEKLDKKSSPSTGSLDSGNE SKEKLLKGESALQRVQCIPGNA SCCDCGLADPRWASINLGITLCI ECSGIHRSLGVHFSKVRSLTLD WEPELLKLMCELGNDVINRVY EANVEKMGIKKPPQPGQRQEKE AYIRAKYVERKFVDKYSISLSPP EQQKKFVSKSSEEKRLSISKFGP GDQVRASQAQSSVRSNDSGIQQS SDDGRESLPSTVSANSLEYEPG ERQDSSMFLDSKHLNPGQLLYR ASYEKNLPKMAEALAHGADVN WANSEENKATPLIQAVLGGS LV TCEFLQNGANVNQRDVQGRG
17234	47602	A	17339	1	782	
17235	47603	A	17340	1	475	
17236	47604	A	17341	1	852	
17237	47605	A	17342	432	696	
17238	47606	A	17343	3	296	ETEIEALKEELLFLKKNQEEV KGLQAQIAISGLTVEVDVPKSQ DLAKIMADIWAQ*DELEDGEDF SLRDALDSSNSMQTIRKTTTRPI VSGWQSGV
17239	47607	A	17344	2	292	SQKKGLVGALTLPNPPHFCPCHL *EVKGLQAQIASSGLTVEVDAP KSQDLAKIMADIRAQYDELAR KNREELDKYWSQQVREGKGM GCQGVGGRQTE
17240	47608	A	17345	1	908	

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17241	47609	A	17346	1	1452	TGPEFHDRLRVRRRPQSLSPVL LLSSPDSMSFTTRSTFSTNYRSL GSVQAPSYGAGPRRAARPASY AGAGGSGSRISVSRSTSFRGGM GSGSLATG\IAGG\LAGMG\GIQ NEKETMQSLNDRLASYLDRVR SLET\ENRRL\ESKIRE\HLEKKG PQ\VRDWSHYFK\IEDLRA\QIF\ ANTVDNARIJVL\Q\DNAPSCVR DDFRIVKY\ETELA\MRQSCWRT DIHGAPQGPFDNTNYHTDLQL/ EKTEIRGSSRRELLFQ*RRNHEE \EKLKGLQAQIAQFLGLTRGRL DCPQIFRDLRQDSWADIRGPIID ELASEEPRGSLDKY\WSQQ\EE STTVVTTQFAEVEAAETT\LTE LRRTVQSLE\DLDSMRNLKAS\ LENSLREG*RPAYALQ\MEQLN G\LLHLESELAQTRAEGQRQA QEYEALLNIKVKLEAEIATYRR LLEDGEDFNLGDALDSSNSMQ TIQKTTTRRIVDGKVVSETNDT
17242	47610	A	17347	467	843	
17243	47611	A	17348	114	1363	
17244	47612	A	17349	2	281	
17245	47613	A	17350	1	588	
17246	47614	A	17351	184	354	
17247	47615	C	17352	391	657	
17248	47616	A	17353	1	2010	
17249	47617	A	17354	2	443	VPDLPPSHRGFRAAQGGLPPKN KVAALPSWGSANQNSSARWEL VSPPIHRGGS*GPGETGDLDGSS IQRAVELRLVQAFVVPKSSLRD PSREGRGGWAG*VQTKGA*AR PTLLWAPKR/DRGGKAAPTSTW NSPKAGCPSARSSPAPP
17250	47618	A	17355	1	1359	
17251	47619	A	17356	260	380	
17252	47620	A	17357	153	273	
17253	47621	A	17358	270	484	AKYRGTGSSRKALGAHWVPKQ PIPAWQHKKDPSGGRPEEQGVKL YREKEFSS*TL*/RI*TGPDAAW YAWADAW
17254	47622	A	17359	2	941	
17255	47623	A	17360	1	615	
17256	47624	A	17361	911	1472	
17257	47625	A	17362	2	442	
17258	47626	B	17363	76	235	
17259	47627	A	17364	38	190	
17260	47628	A	17365	134	523	
17261	47629	B	17366	1	1776	

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17262	47630	A	17367	394	554	
17263	47631	A	17368	22	831	
17264	47632	C	17369	1	1191	
17265	47633	A	17370	199	647	PSVPTEGSRNRTTAVAVEERQS DGSGSLSPGKLQTTTTGIMALL HITGAPVSSDFRLDWLIERPKG GRRALSIRSLALPLPQHCGSD NDWIPLQLRLLSRASFSHDDDL GFGAYRRALHILCIHSSKEALE LNTFQPVTFLNAFSK
17266	47634	A	17371	1	2697	
17267	47635	B	17372	25	1698	
17268	47636	A	17373	2	218	ASLRSSPFSRSLRCQGKNTPEPS GLPKALFCTKPSR\ADLGPAHG RRPLPSVQPG*AIPGRVSRGEKN LTNR
17269	47637	A	17374	2	2543	
17270	47638	A	17375	198	403	PQALREHSPSV*TGRQDRQLLF KDCTCQRQRDSDSVQGKRRL HISSPQGLNSFPAVSLKLEHNV KAE
17271	47639	A	17376	58	543	VLYRSSRMCRKIRVLISRPFSIV KICERVLSQTSQGRHDYAAAA VSKTGQKRIHSSGTRGSGAPHS PGWWEPSDPRVGVSICFLSLK YRLFSSCLVQCLGPVLGNNSC SPEGPREPSPPSHGLGFPKMCT* TQVPASTTQSDNGQNHNPNGCP MPISPDS
17272	47640	A	17377	14	701	
17273	47641	A	17378	91	309	GRKQFPHLATGKEGCVGGQRL PCVTVELIFAPAGAAVPRRP*L PRTAPS*LHCLPVCMPGEAPT ARHAAWV
17274	47642	A	17379	2	2625	
17275	47643	A	17380	1	1752	
17276	47644	A	17381	3257	3412	
17277	47645	A	17382	1	1091	
17278	47646	A	17383	233	1148	
17279	47647	A	17384	1	1716	
17280	47648	C	17385	162	356	

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17281	47649	A	17386	836	2106	AKKFRKRWPLEEQEQNVDPGG AAPVTALRKRVTSQRCSLEFLE DAVGCAPAQRYTPPSAPSSTTP LGLPLT/TCGARGSWEEKSDLC PLPCRTKHTSGSPRHKGLKKTH FIKNMRQYDTRNSRIVLICAKR SLCAAFSVLPYGEGLRISDLRV DSQKQRHPSGGVSVSSEMVFEL EGVELGADGKVVSYAKFLYPT NALVTHKSDSHGLLPTPRPSVP RTLPGSRHKPAPTKSAPASTEL GSDVGDITLEYNPNLLDDPQWP CGKHKRVLIFASYMTTVIEYVK PSDLKKDMNETFREKFPHVKLT LSKIRSLKREMRSLSSECSLEPV TVAMAYVYFEKLVLQGLIKQ NRKLCAGACVLLAAKISSDLRK SGVTQLIDKLEERFRFNRDLIG FEFTVLVALELALYLPENQVLP
17282	47650	A	17387	1	2531	
17283	47651	A	17388	1	1506	
17284	47652	A	17389	34	576	
17285	47653	A	17390	112	1840	EELRVREHVTGGICGGSQMMV DLLGATTLELVAVAPWVMSAA AGGKNLKSPHKVEVDIIDDNFI LRWNRSDSVGNVTFSDYQK TGMDNWIKLSGCQNITSTKCNF SSLKLNVEEIKLRIRAEKENTS SWYEVDSTPFRKAQIGPPEVH LEAEDKAIVIHISPGTKDSVMW ALDGLSFTYSLLIWKNSSGVEE RIENIYSRHKIYKLSPETTYCLK VKAALLTSWKIGVYSPVHCIKT TVENELPPPENIEVSVQNQNYV LKWDYTYANMTFQVQWLHAF LKRNPNGNHYKWKQIPDCENV KTTQCVFPQNVFQKGIYLLRVQ ASDGNNTSFWSSEEIKFDTEIQAF LLPPVFNIRSLSDSFHIYIGAPKQ SGNTPVIQDYPLIYEIIFWENTS NAERKIIIEKKTDTVPNLKPLT VYCVKARAHTMDEKLNKSSVF SDAVCEKTKPGNTSKIWLIVGI CIALFALPFVIYAAKVFLRCINY VFFPSLKPSSSIDYFSEQPLKNL LLSTSEEQIEKCFIENISTIAIVE ETNQTDEDHKKYSSQTSQDSG NYSNEDESESKTSEELQQDFV
17286	47654	A	17391	3	373	

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17287	47655	A	17392	1	432	LPRFVGQQPRPLGPLRGSGSEG CRAPGEAVRAPDYAFPIPGTRA S/PLNRFPLGGTAWPQAHPTNP KPAPAPGAQLDDPPRYSRHGLS RWGLPLQSLVLLPPLQRPMLPQ AAPNTPWWPWTLRAGRREN AHAQRKLHLWAGKVE
17288	47656	A	17393	98	376	
17289	47657	A	17394	1	364	
17290	47658	A	17395	1	1230	
17291	47659	A	17396	892	2004	RRMSFMSSEVLVGELMSPFDQS GLGA\EESLGLLDDYL\EVAKHF KPHGFSSDKAKAGLLPNGLA\ \ DGLVSPSNNSKE\DAF\SGTDW DVGRKWVLKEFDGCPCLGIE* PWETIARLTFLTTFGIDICDSSLP P*FQGRLIKAAPRRLNPIG\HLP QKFLTKPRPGLAPFTF\LOPL\PL SPGVL\STPDSFPFSFRSWGS*K WDIH*KGD*/RKPDYTAYVA\MI PQCIKE\EDTPSD\ND\SG\CMSP ES\YLGSPQHSPST\RGSPNRS LPSPGVLCSARPKPYDPPGEK MVAAKVKGKELDKKLKKMEQNK TAATRYRQKKRAEQEALTGEC KELEKKNEALKERADSLAKEIQ YLKDLIEEVRKARGKKRVP
17292	47660	A	17397	43	1300	DSCCIQGTMRLSRTQQRPGVEG SLKQHQR LH SNFSSINESVFIVS FSLNTIGSGGRGAEGEP/GREPL SRPQPPAGPLGGALPAPP SLMPQL*SE*GRLQLLYLLQ/PAVC SCSRCSAPRSRCVARPAARTGL PTPAPASSP/CSRSLSSSRSLSSSC RVSCCHSLSSCCRSLSCSRSSST SSRSSSTSSSSSLSSSLSCSSCRL SCSNSFSSTSSSSSLSSSLSCSSC CLSCSNSFSSTSSSSSLSSSLSCS SCRLSCSNSFSSTSSSSSLSCPGSFS CSHSLSSCSRSLSSCSHSLSSCSR SLSSCSHSLSSCSRSLSSCSHSL SCSRSLSSCSHSLSSCSRSLSSCS CSLSSCSRSLSSCSHSLSSCSHSL SSCSRSLSSCSCSLSSCSRCLSSC SCSLSSCSRSLSSCLLFRRLNI
17293	47661	A	17398	288	574	

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17294	47662	A	17399	230	648	VIAPGLWMMAADIPRVTTPLSS LVQVPQEEDRQEEVTTMILED DSWVQEA VLQEDGPESEFPQS AGKGGPQEEVTRGPQGALGRL RELCRRWLRPEVHTKEQMLTM LPKEIQAWLQEHRPESSEAAAA LVEDLTQTL*DSWVQEA VLQE DGPESEFPQSAGKGGPQEEVT RGPQGALGRLRELCRRWLRPE VHTKEQMLTMLPKEIQAWLQE HRPESSEAAAA LVEDLTQTL
17295	47663	A	17400	105	381	SSGFWPLRFPLDVIKAVSTIAVH EKEESLWPRVAVFSTLAP/ESPP WGEAPQSAGR*SGVPEDHVHL RYRGTLSLACSSRRHHPAQLS HYKN
17296	47664	A	17401	1023	1915	
17297	47665	A	17402	3	277	QVLLQGALLLLITVAQAGRVLK LGVSREFQDLLILWGKETFRRC PGPCSPALHLQPGSSIP/SSQQLL *YLAAEQPQLHRGPPRTPAPVS GAE
17298	47666	A	17403	3	299	
17299	47667	C	17404	46	398	
17300	47668	A	17405	171	403	GKNSTLQQFNNLLHYSSITVAV NNPTLGNSVSVPFLYILFTGIHQ LVKVILRKLKG*RFGLELASLSL LFLPPVSLF
17301	47669	A	17406	291	467	
17302	47670	A	17407	2	395	DHAYVFLGRTACYLMKAYRK VNPRVIFSSNTIETHPKDLLHSC DHPFAEKTQFTVSTLDDVKNSG SIRDNYCRTSEISA VHIDTECVS VMLQAGTPPLQVK*RKNFQQR KQG*KMKWDPSDISNSMAEVL
17303	47671	A	17408	1	149	EKEIPGPWLLGAMRFRFCGDLD CPDWVLA EISTLAKIPL*SCGCS AARY
17304	47672	A	17409	555	1156	QFYNKTPSRSECPNLLHHMRTE GPPGGVDQPDGHQAGWPPPEP AGQQRGRQSGCHLLQGGASPR PSCGTVHARACTPPASCPPCHR YRSHLQRGKWWPK/GLPQHTR LDHTEVLGAAEGSTVSAVPSAT RAARDHVRLQTRKCFCKGAL LLLITAARAGRVLFGQPQLLQF TGQGFAIDTVLGRTGEDETQHC HCGLHIA
17305	47673	A	17410	3	366	
17306	47674	A	17411	408	1702	
17307	47675	A	17412	1	2661	

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17308	47676	A	17413	2	2288	
17309	47677	A	17414	1	1992	MGDFNTPLSTLDRSMRQKVNK DIQELNSAVHQVDLIDIYRTLHP KSTEYTFFLAPHRTYSKIDHIVG SKALLSKCKRTEIIRNCLSDHSA IKLELRINKLTQNCSTTWKLNN MLLNDYWVHNEMKAEIKMFF ETNENKDTTYKNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQFKELEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFEMISKIDRPLARLIKKKRE KNQIDTIKNDKGDIITDPTEIQTT IREYYKHLIAIKLENLEEMDKF PYTNTLPRLNEEEEIESLNRTITGS EIEAIKSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASHILIPKP/DVGSSS QGNQAGERNKGYSFRKRGSI VPVCR*YDCTFRKSHFLSPKSP* ADKQLQQSLRIQNQCAKITSIP HHQQTNRPNHE*TPIHNCFKE NKIPRNPTYKGCEGPLQGELQT TAQ*NKKGHKQMEEHSMMLMD RKNQYRENGHTAQGNLQIQCH PHQATNDLHRIKKNYFKVHM EPKKSPPHCQDTPKQKE*SWRH HAT*LQTLQGYSNQNSMVLVP KQRYRPMQNRALRNNTTHLQ QSDL*QT*QKEEMGKGFPI**M VLGKLASHM*KAETGSLLYIL
17310	47678	A	17415	1	1677	

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17311	47679	A	17416	1	2178	MGDFNTPLSTLGRSTRQKVNK DTQELNSALHQADLIDIYGT PKSTEYTFPSAPHHTYSKIDHIV GSKALLSKCKRTEHTNCLSDHR AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKEKRE KNQIDATKNDKGDITDPTEIQ TTIREYYKTLYANKLENLEEMD KLLDITYTLPRLNQEEVESLNRPI TGSEVVAIINSLPTKNSPGPDGF TAKYYQRYKEELVPFLKLFQS TEKEGILPNSFYEASIIIPKGR DTTKKENFRPISLMNVDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNICKSINVQHINRT KDKNHMIISIDAEKAFDKIQPF MLKTLNKLVLVLAIRAEKE IKGIQLGKEEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWIGRJNIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARITKSILSQKNK AGGITLPDLKLYYKAIVTKTA WYCYQNRDIDQWNRTEPSEIM
17312	47680	A	17417	1	1770	
17313	47681	A	17418	1	1101	
17314	47682	A	17419	1	1614	

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17315	47683	A	17420	1	1878	MVLALTGNKADLASKRPLEFQ EAQAYADDDSWLFMETSAG AMNVNEIFMAIAEKLPKNKPQ NAAGAPDRNQGYLSACEFSGR KLPKQTTKHIKQSLRTKLCGAS YASSNLIPRKLYEPPLVIPRKTG SGVDLQQTPDLDLWVLTVRR KSNKQKGYPHQNPICMLPSSKT KDFKPTKIKRDKDGHYIMVKG SIQQEELTVLNINAPNTGAPRFI KQALRDLQRDLDSHTIIMGDFN TPLSTLDRSTRQKVNKDIQELN SALHQADLIDIYRTLHPRSKDY TFFSAPHHTYSKIDHIVGSKALL AKCKRTEITRNCLSDHSAIKLEL RIKKLTQKCSTTWKLNLLLND YWVHNEMKAEIKMFFETNENQ DDTYQNLWDTFKA VCRGKFIA LNAHKRKQERSKIDILTSQLKE LEKQEQTHSKASRRQEITKIRVE LKEIKTQKTLQKINESRSWLFE KINKIDRQLARLIKKKREKNQID AIKNDKGDITTDPTIEIQTIREY YKHLIYAKKLENLEEMDKFLDT YTLPRLNQEEVESLNRPIGTSEI EAIKSLPAKKSPGPDGFTAIFY QRCEKELAQFLRLFKSTEKEGI LPNSFYEDSIIL/ILPKPGRDITK KENFRPISL
17316	47684	A	17421	1	1761	
17317	47685	A	17422	1	1875	
17318	47686	A	17423	1	1611	
17319	47687	A	17424	1	4539	
17320	47688	B	17425	1	6294	
17321	47689	A	17426	2	1913	
17322	47690	A	17427	1	1026	
17323	47691	A	17428	1	2112	

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17324	47692	A	17429	1	1884	MENGFDELREEGFRRSNYSELQ EEIQTGKGEVKNIEKNLDECITR IPNTEKCLKKLMELKTKARELR EECISLRSRCDQLEESVSVMED EMHEMKREGKFKREKRIKRNEQ SLQEIWDYVKRPNLRLIGVPED RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELKIKKLTQ NFSTTWKLNLLNDYVWHN KMKAIEKMFETNENKDDTTYQ NLWDTFKAVCRGKFIALNAYK RKQERSKIDTLTSQKLEKQKE QTHSKASRRQEITKIRAEKIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNQIDAINKD KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIHSL PTKKSPGPDGFTAQFYQRYKEE L/RNKIPRNPTYKGCEGPLQGEL QTTAQGNKRGDKQMEHSML MGRKNQYRENGHTAQGNLQIQ CHPHQATNDFLHRIGKNYFKV HMEPKKSPHRQVNPKEQSW RHHAT*FQIILQGYNSQNSMVL VPKQRYRSMEQNRALRNNATY LQLSDL*QT*EKQAI
17325	47693	A	17430	1	1695	
17326	47694	A	17431	1	3779	MELKTKARELREECRSLRSRRN QLEERSVAMEDEMNEKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTTPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
17327	47695	A	17432	1	735	
17328	47696	A	17433	1	2541	
17329	47697	A	17434	1	1461	

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17330	47698	A	17435	2	429	AACAAAMSLVPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTAKRA GELTEDEVERVITIMQNPRQYKI PDWFL
17331	47699	A	17436	1	615	
17332	47700	B	17437	264	556	
17333	47701	A	17438	1	406	FFFFFLQKVGIIYLIHKTFFQQRHL WVTSA AFLSLSSMAAVGTSSSL SENSGPGHGGKQTF*GP/EGTDI PEGRHHFSAQAFSVVAGRGT AALLHGSHVPQGR\SRIGSRSGG PPSHPDTCSSSHSAGRSCPHSC TG
17334	47702	A	17439	3	3484	
17335	47703	B	17440	42	367	
17336	47704	B	17441	203	382	
17337	47705	A	17442	22	266	YRDLPHFLNLSLIFNMSTSLRE TMILIRTLRVPL/PLHGVIQPI KIQGLVLNALNQVQESIFQVSF NLFPDAFQHVIRA
17338	47706	A	17443	1	1137	
17339	47707	A	17444	1218	1482	QSPWPSLLRGDVSITPNLIFSCL SIGWPFCLV/SFC*PKK*TFQGV GSEVYDVKHFASCVLCHKQMN KLNLYFRNTYFVALLSTELFEN
17340	47708	A	17445	2	377	
17341	47709	A	17446	1	211	
17342	47710	A	17447	2	732	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFDRDSPHLFGQAQQAQ DLVHFSSPGTLVVQYMDDL ATSSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTTTPQP VAYLSKETDVAAKGPLTALLL LAFGPCIFNLLVKLVSSRIDAIK LQMVLMQEPQMSSTNNFYRGP

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17343	47711	A	17448	1	3003	MPGAQDLQPTMPEPPHPQWAP TWPEPPRRVPPPAPRRPVPLTA QGLSVDQSRLGKFSDDPDYID VLQGLGQTFDLTWRDVMLLLD QTLAFNEKNAALAAAREFKDT WYLSQVNDRMTAEERDKFPSG QQA VPSMDPHWDLDSYGDW SHKYLLTCVLEGLRRIRKKPMN YSMMSTITQGKEENPAFLEQL WEALRKYIPLSPKSLEGQLIKD KFITQSAADIRGKLQKQSLVPE QNLEALLNLATSVFYNRDQ
17344	47712	A	17449	5	624	IQPILAYPHPKTLKQLWGFLGIT /GFCPVWIPRCSKIAKSLYTLIKE TQRANTHLVEWEPEAETAFTK LKQALVQAPTLSPPTGENFSLY VTERAGIALGVLTQTRGTPQP VTYLDKGEPMKCDCQIIVQTY ATQDDLLEVPLANPDNLTYD GSSFVENGIRRAGYAIVSDVTIL ESKPLPPGTSAQLAELVALTRA LELGKGKE
17345	47713	A	17450	636	2628	SNDRTEDDCGKHPFMSSPPTEP WVCLIIEGQEIDFLDGTTFVS LIPCLGRLSSRSVTIQGILGQPV RYFSHLLSCNWETLLFSAFLV MPESPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPEAEW FTVLDLKD
17346	47714	A	17451	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAAQ DLVHFSSPGTLVVQYMDLL ATSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTPQP VAYLSKETDVAAK

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17347	47715	A	17452	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVFTQGFMPTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
17348	47716	A	17453	1	369	
17349	47717	A	17454	1	1632	
17350	47718	A	17455	636	1837	SNDRTEDDCGKHPFMSSPPTEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPV RYFSHLLSCNWETLLFSAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPEEAEW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETAFAETLKQ ALVQAPALSLPTGQNFALYVIE RAGIALGVLTQTHTTPQPVAY
17351	47719	A	17456	2	52	EISFVENGIQRAGYAIVSDVTVL ESKPLPGTSAQLAELVALTRA FELGKGKRINANTDSKYAYLIL HALAAIWKEREFLISGGTPIKYH KEIMELLHAMQKPKEVAVLHC QSHQKG*EWDTKGRLCHS
17352	47720	A	17457	1625	2505	PGVQKP/GQWRLVQDLRLINEA VIPLYPVVPKPYTLFSQIPKEAE SFTVLDLKDAFFCIPLHSDSQFL FAFEDPTDHTSQLTWTVLPQRF RDSPHLFGQALVQDLGHFSSPG TLVLQFVDDLLAASSEASCQQ ATRDLNFLANQGYKASKSKA QLCLQQVKYLGILARGTRALS KKRIQPILAYPRPKTLKQLRGFL GITSFCRLQIPGYSKMARPLYTL IKETQRANTHLVEWEPEAETAFA KSLKQALVQAPALSLPTRQNFS LYVRERAGIALEVLTQTHGTTL QPVAKG
17353	47721	A	17458	1	2415	

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17354	47722	A	17459	2646	5167	KNSGHILGTCPGYRYAKGKET GKEIHKGPQNPPGYRLCPLQAV GGGEFGPTQVHVFPFSLSDLKQI RVDLGKFSDDPDRQYPLRPEAH EGLQDILRYLKVQGLVRKCSSP CNTRILGVQKPKGQWRLVQDL RFINEAVIPLHSVVPNSYTLLSQI PEEVEWFTVLDLKDAAFFCIPLH SVCQFLFAFEDPTDHTSQFTWT VLPQGFRDSPHLFGQILAQDLG HFSSPGTLVLQYVDDLLLATSL EASCQATLDLLNLLANQGYK ASKPKAQLCLQQVKYLDLSLA RVTRALSKERIQPILACRPKTL KQLRGFLGITNFCQLWIPGYSE MARPLYTLIKETQRANSHLVER EREAETAFKTLKQALVQALALS LPTGQNFSLYARERAGIALGILT QTHGTPQPVTYLRKLIYSFVE NGMRRAGYAIVSDVTVPESKPL PPGTSTQLAELVVLTALELRK KKRINVNTDSKYAYLILHAHAA IWKEREFLTSGGTPNKYHKEIM ELLHAVQKPKEVAVIPQSHQK GEEK/EAEGNRRADAEAKIAA RRNLPTIEPMEGPLVWNNPVQE IKPQYSLTKTEWGLSQGHSFLP LGWLTTLLEGKAGRATPNPRNV YFPLHLRGLRTGRLPLSQSTRA QEMTLVRPRPSSSPPEKAAEG RGRRCSSSETKLRHRRLLFRPLRTP LCATAPLAASVAAVLAAAPAA
17355	47723	B	17460	1	2208	
17356	47724	A	17461	2	168	
17357	47725	A	17462	890	1034	
17358	47726	A	17463	386	619	TFITGDCLGTKN/HIFDGCGVLS EVGLVLDCSNQRFKAGPA*LCQ SPFKNIL*ESLPMCMCRQLEKH AHPQGLCHTQVT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17359	47727	A	17464	123	2169	DLGHRGSREMASVALEDVAV NFTREEWALLGPCQKNLYKDV MQETIRNLDCVGMKWKDQNI DQYRYPRKNLRCRMLERFVES KDGTQCGETSSQIQDSIVTKNT LPGS/VGPYESRMSGEVIMGHSS LNCYIRVGAGHKPHEYHECGE KPDTHKQRGKAFSYHNSFQTH ERLHTGKKPYDCKECSFSSL GNLQRHMAVQRGDGPYKCKL CGKAFFWPSLLHMHERTHTGE KPYECKQCSKAFSYSSYL RHE RHTHTGEKPYECKQCSKAFFYS SYLRHERHTHTGEKPYKCKQCS KAFPDSSSLIHERHTHTGEKPYT CKQCGKAFSVSGSLQRHETTHS AEKPYACQCGKAFHHLGSFQ RHMIRHTGNGPHKCKICGKGF DCPSSLQSHERTHTGEKPYECK QCGKALSHRSSFRSHMIMHTG DGPBKCKVCGKAFVYPSVFQR HERHTAEKPYKCKQCGKAYR ISSSLRRHETHTHTGEKPYKCTLG KAFIDFCFSQNHKTHTHTGEKPY ECKECKGAFSRFRYLSRHKRTH TGEKPYECKTCRKAFGHYDNL KVHERIHSGEKPYECKECKGAF SWLTCFLRHERIHMREKSYECP QCGKAFTHSRFLQGHEKHTTG ENPYECKECKGAFASLSSLHRH KKTHWKKTHHTGENPYECKECKG KAFASLSSLHRHKKTHWKKTH
17360	47728	A	17465	1	1317	
17361	47729	A	17466	1	336	
17362	47730	C	17467	51	353	
17363	47731	A	17468	190	348	YAIHIMDVHTVRSLYYFNCFRY *ACYCCHYLTDIPEITKLSGCSY GGTSLIWG
17364	47732	A	17469	1	1716	
17365	47733	A	17470	1	840	
17366	47734	A	17471	699	1283	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI C/FKNVDLKGFEVDVRILLTKYS NSNGSQSPWMEEQIRDAGERV HSAFSLNWGKPLVFEKDRPYSV SVFIGLFLPMAEKTGPLKGNPG GEFLLFLRQIQLVWLPAAAGIMT EHYFPITATQALEINNAISTIMEI FPTVSFASQWITASFSV
17367	47735	A	17472	300	461	
17368	47736	A	17473	1	2451	

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17369	47737	A	17474	2	3542	
17370	47738	A	17475	1	1156	
17371	47739	A	17476	1	1176	
17372	47740	A	17477	1	257	
17373	47741	A	17478	295	1353	
17374	47742	A	17479	3	1772	
17375	47743	A	17480	2	284	
17376	47744	A	17481	1	141	
17377	47745	A	17482	1	506	PHSPLWKTL CSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFGVMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTL CSPSSGVCCGFVT LFCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKV IQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFGVMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
17378	47746	A	17483	1	741	
17379	47747	A	17484	1	993	
17380	47748	B	17485	277	416	

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17381	47749	A	17486	686	2400	TGMSVDEKPDSPMYVYESTVH CTNILLGLNDQRKKDILCDVTLI VERKEFRAHRAVLAACSEYFW QALVGQTKNDLVVSLPEEVTA RGFGPLLQFAYTAK\LLLSRENI REVIRCAEFLRMHNLEDSCFSF LQTQLLNSEDGLFVCRKDAAC QRPHEDCENSAGEEEDEEEETM DSETAKMACPRDQMLPEPISFE AAAIPVAEKEEALLPEPDVPTD TKESSEKDALTQYPRYKKYQL ACTKNVYNASSHSTSGFASTFR EDNSSNSLKPGLARGQIKSEPPS EENEEESITLCLSGDEPDAKDR AGDVEMDRKQPSAPTPTAPA GLCLERSRS/GNYGQPH/VGQK EVSNFTMGS/PLRGPGLALCK QEGELDRRSVIFSSACDQVSTS VHSYSGGARFLATEHQEPGLM GDGMYNQVRPQIKCEQSYGTN SSDESGSFSEADSESCPVQDRG QETGSTDLRLSTKLQSCSGPM FKGPTATVAATESWGTVLQNIP LGCAGTGEEVTTYTNPPPRGRAA LVPRSPLTVYSSSLPEHQTSLKQ CAQAGPGVCLLVHNNHWQLLEG
17382	47750	A	17487	1	1089	
17383	47751	C	17488	295	348	
17384	47752	A	17489	1	711	
17385	47753	A	17490	1	1248	
17386	47754	A	17491	135	259	
17387	47755	A	17492	434	506	
17388	47756	A	17493	3	227	
17389	47757	C	17494	3	236	
17390	47758	C	17495	25	153	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17391	47759	A	17496	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGEKTDGSRMTVDYCKL NQVVTPIAAA VPDVVSLLLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTLDLLVRHLCATGWEINPT KIQGSSTS VKFLGVQWCGDCR DVPSKV KDKLLHLAPPTTKKEA QHLTGLFGFRRKYIPYLGVLCC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAALPLGPYDPAGP MVLEIAVADTEAVWGH/WHSA SFPSHPCHCPMGP*TKWP*WQG WRLCMGSATWTSTHEG*PGYG HQ*VPNLPA AETNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AE\HLLWIWVCLSCMQCFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRTPVERPFEIT TTMPTSQESRVQESRGGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNNSIK L*VKIATWTLWAPPTSKL
17392	47760	A	17497	2	1120	PSKVKEKLLHLAPPTIKKEAQR LVGQLGFWRQHHPHLGALLWLI YQATQKAASFEGWPEQEKALQ QVQVAVQAALPLGPYDPADPM VLEVSADRDVAVWSLWQAPIG ESQQRPLGFWSKALPSSTDNYS/ CFRCAIY*FMGCCQ*FGWIVRD LEEA*LENW*QRNLGKRYVDG PL*VVKNWKDICIPCECSPTGDL SRGGF**SSG*DDPFCGHHSASF PSHPCCRPMGP*TKWPWWQE* RLCMD SATWTSTHQS*PDYSH C*VPNLPA AETNTETSIWHHFS G*SASYLLAG*LH*TSSIMEKAE VSPHWNKHSLWIWVCLSSMQC FCQDYHPWTHSMPYPLSWYST QHCLSLQRERHSLYR*RSAAVG ACS
17393	47761	A	17498	1	1908	
17394	47762	A	17499	1	915	
17395	47763	A	17500	2	670	
17396	47764	A	17501	1	1332	
17397	47765	A	17503	151	674	
17398	47766	A	17504	1	825	
17399	47767	A	17505	134	447	
17400	47768	A	17506	98	778	

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17401	47769	A	17507	1	830	MHCFFIFSAAWFCLWSISLHLV ERPDMAVLLFPFGLRLGLMLQ CPRGYWPVLLGAEWLLIYWLT QAVGLTHFPLLIGSLLTLLPV ALISRYRHQRDWRTLLQGA LTAAALLQSLPWLRHGKESWN ALLTTLTG/EPDAGPDMMSGVLA LSRQ*HLAAARSVTGFSANQLA RATSGVLAAVCYQSLAPVGIA GRTVALYAILSGAADYRAGLA LWLARGADCVDHRHADR QSWRDLPWTYCSGDCDSRHGA QGQKARAPPKHDQFPHAFIRG
17402	47770	A	17508	2252	2772	RSKTTAFTPLRVRTSAHARPAG PAPIIATFLPVCFTPDISGRQPISN ALSLI*RSMLPMVTAPNSSFRV QEPS/SQTVLRADSSANFRQGV GLVRQFRRFKNTPLVGELQPVR DVVVYRAFPLAVVWAARQAA VSLRFGLAFGKRLVNFNKLNFA DLQRFLWRINALQVDKLITF
17403	47771	A	17509	539	1077	
17404	47772	C	17510	192	396	
17405	47773	C	17511	10	294	
17406	47774	A	17512	2	379	KRPGSGITEATSSRRQRPTRRLQ GQLPGQEKRVLKATEGIANPS WGWGGAVSPLRASLTSLRHKI NNHYNTENWKLPIKDSHLIPSP QAPSMPPPLANPPWAPHPREK MWNPQIQGTNCIWVCGP
17407	47775	A	17513	291	590	
17408	47776	A	17514	187	589	VLSFLIHRWEGDKDSLLGPNFS QTPQPSRRFICAFPWENPS*EPS YPSISDPGFLILLPSKGDVWIHL GPIFSKKPLYS*SSFLVIFYPVTP SFLFLGYKFPLAHAVFRVEPTLS LLIQNSHCHGCTYPDGPE
17409	47777	A	17515	1509	1748	IGVVREGIPVLCFLSKGMLPVF AHSV*YWLWVCHR*LLLF*DTS HQYLIY*EFLA*SVVDFCQRPF HLVLDFFWLVS
17410	47778	A	17516	152	568	CQLELSCKMCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPLGSMTIF KILILPIEHGMMFFSLSVSSFVSL

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17411	47779	A	17517	152	568	CQELSCMKCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPLGSMTIF KILILPIHEHGMFFSLSVSSFVSL
17412	47780	A	17518	152	479	CQELSCMKCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGCPHTLQA
17413	47781	A	17519	1	474	
17414	47782	A	17520	1326	1712	FLYVIKALGKKQLQFGQQILIPS IELLDYLINPGSGCVSLWKLNK PQYCYLIHFSGLTELSWKVHTIL LEGHYEFLEYAADR*PICLFSW KERQLVSFLDYSLLHLLGSFYV VFFFLLYLVRCLWDL
17415	47783	A	17521	18	236	
17416	47784	A	17522	281	1005	TGWSPLQLSKATVARLPLWIPP LWAGHLGELWLASGEYPSGLK LPEEGTGSNLRCSAASAGDTQA NRVWSGPAANFSRPAAEPAF HALRGPSVHCSPLCVHEFSSFS LISENMQYLVFCSGVRFLRIMVI SSIHILCLVPKRTRVLGRSLTC FRFLRGPKERITIPHSSAPPLGH VIAIPL*SFMKPSPEADAPMTG SFLKSPSEADTGATLPVQSVVPI PLSILPILEVGGVLFT
17417	47785	A	17523	1	1524	
17418	47786	A	17524	881	1108	SRKMGAPNA**SAWSWSREGL AAP*SMFSSLSADSSADCKLPE GKVQPASSTGLTARASKDLYFC CCFSISARAS
17419	47787	C	17525	1	867	
17420	47788	A	17526	203	514	SSSTARPSQTSSAESPTSWYRG DNPSKPMPLVAGVFGAIVGA ASVLGNAPLDGIETGCGAWSST NAHTGLWLQILRKEGLKDL*N GTVPRLGRWTASPWM

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17421	47789	A	17527	1	1578	MAKKEQLLSAAPSKTNAEGQEI PSGVYTTRALGFKHKTGQPFQ TPSYPOEFILYTNDTWNASKTE PFTPLERGLKPGSQESSGWHLV GTPLGRSFQRKEQAAIFAVLQP PLVIPRQTGSGVDLQQTPTDLQ KRVLTVRRKTNSININKKDDHA KTTSKGHQQRPKVDKSTKMR KNQCKKATNSKNQNVSSPPKD HNSSTAKEQNW MENEFDKLTE VGFRSSQFDQVEERISDIEDKLN EIKHEDKIREKRMKKKEQSLQE IWEYVKRPNLRLIGVPESDGEN GTKLENTLQDTIQENFPNLARQ ANIQIEIQRTTPQRYSSRRATPR HII/E*IHQG*NEGKTVKGSQRE K*GQEIPSGVYTTRALGFKHKT GQPFQTPSYPOEFILYTNDTW NASKTEPFTPLERGLKPGSQESS GWHLVGTPLGRSFQRKEQAAIF AVLQPPLVIPRQTGSGVDLQQT PTDLQKRVLTVRRKTNSININK KDDHAKTTSKGHQQRPKVDK STKMRKNQCKKATNSKNQNV SPPKDHNSSTAKEQNW MENEF DKLTEVGFRSSQFDQVEERISDI EDKLNEIKHEDKIREKRMKKKE QSLQEIWEYVKRPNLRLIGVPE SDGENGTKLENTLQDTIQENFP NLARQANIQIEIQRTTPQRYSSR RATPRHIIIGRFTKVEMKEKRLR AVREKSRVTHKGKLI RL TADLS
17422	47790	A	17528	738	1323	ATGGHSNQRQRS*KLSKKFRR MYN*NNQYREV LKGADGAEN QGSRTTETLCM*RMQRSLQFAD SDLVRHQKHSGEKPYECCEC GKAFRGSSELIRHRRHTGKPY ECGEYKSYECIACGKAFRGSST LIENQRIHTGKPYECNECGKSF NQSSALTQHRIHTGKPYECS EKRKTFRHRSGLMQHQRTHTR
17423	47791	A	17529	1	656	MAGKPEYDKTISTSIVLNALNA LGVSASGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTLLPGITH EQVCEAITEAFFAHYGERVEAE IISPKNTPDLNFAETFARQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDV/GKRPYHPRPGVYR QPQPRAAGSPRRTTARLPFLSL

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17424	47792	A	17530	1046	1401	LLDIRMLCHGKGVIIHVLRLQF LLGRPAPHRLHAALQLPGLSLH GTLALGLWLQLRQLLLLGQPF GISGCGSGCDPEQDCV/DCGRG CWPRKCPQGSAPSRSRGAPHR PRPQQRAAGRQ
17425	47793	A	17531	112	1170	YPFFHLIDSTIDTCVCFKFLCC VFQLHQVIYVLL*TGYSLIFDAD DLWMGFLRGHPFC*CYCFLFVS FPSNSQAPLLQVCWSLLEVHSR PCSPGYHQRLQNSKDCCLLP LEALSQSGTHQMPAGALLYEM SVNPCWEEHQTDQLFTHESTFI RSKTQKKVPDKLLDSSTVTPLF KITENIGCVMTGMTADRSQVQ RARYEAAWYKYGYEIPVD MLCKRIADISQVYTRNAEMRPL GCCMILIGIDEEQGPQVCKCDP AGYYCGCKATAVGVKQTESTS FLEKKVKKKFDWTFEQTLETAI TCLSTVLSIDFKPSEIEVGVTV ENPKFRILTEAIDAHLVALAER
17426	47794	A	17532	2244	2432	DGQQLIALHRLALRELQQAVH AGIAPAGENPV*WFRNRQNP LIALRSLPAFQSGNLSCQLH
17427	47795	A	17533	251	546	SSISDILSSA*SIRLLILVYAS*SS RAVFFSTIRSFIFFSKLVLVSPSC NLLSRFLASFHWVRTCSFSSKEF VIITHLLPTSVNSSYSSLFSFVHF G
17428	47796	A	17534	597	1092	FTNQKESRTRWIHSRILPEVQG GTGTIPSETIPINRKRGNPP*LIL* GQRHSDTKAG\RDTTKKNFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR K/CNKCNPAYKQSQRQK/HT*L SQ*MQKKPLTKFNNPSC*KLSIN *VLVGRISK
17429	47797	A	17535	1	2153	
17430	47798	A	17536	2164	2427	
17431	47799	A	17537	1	322	GPRWGPVHRAPDPVRIPSSGP LLPPRFYPRYVLP\PPSASTSRPC QRTSASGRCPMH/DTVKATM PIWV/DPPVPDHYEGEAHQGIL VTHPHHQRCPAGHRHRVVF
17432	47800	A	17538	1	627	

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17433	47801	A	17539	583	1145	GNGRTVDTQVCQAPITSQSLER PADPNP\GEQDAEAGPASRRDT EAERLRFRQFQYHVASGPHLA VGQLWTLCRQWLRPEARSKEQ MLEVLVLEQFLGALPSKMRTW VQSQGPRSCREAASLVEDLTQ MCQQEGLAAHPSHDTAIRGIPR LAASWETASAMEATADARQKR THTEKEAWLLEAPHELA
17434	47802	A	17540	1	1301	
17435	47803	A	17541	1	1232	
17436	47804	A	17542	1	549	MNTANVEKPYVQKYQTAFVLV MKHRQCQLASHLVQNYRS/IQL WAWE\KIQDPGTTCPSENTITQG SKKPYPDFVARLRDAAQNSITD ENARKVIVELMAYGNANPECQ SATKPLKGKVPTGSDVISDQKA VG VQA AKRRNRDTDTGLGRSAR KSGKGVTRMLPKHASMILDGG GPATSPSCCRFL
17437	47805	A	17543	146	510	SPYWNKGKSPGWLAES\FKRPV FRQGAK\EPYPDFAASLQDAAQ KSITNENARKVIVELMAYENAN PECQSAIKPLKGKVVPVGSVISR GFQGGQPPLSQVLQGMGQLPQ YSNCPRPQAAVQQ
17438	47806	A	17544	2	828	
17439	47807	A	17545	1	420	
17440	47808	A	17546	1	1947	
17441	47809	A	17547	1	399	PLKVNIYPDSKYAFHILHHHER GFLTQTGSSIINASLIKTLKAA LLPKEARVIHCKGHQRASDPIA QDNAHTDKIAKKAASIPTYTPH FQFFSFSS\ATPTYSPAETSTYQS LPTQGKWFLDKETYFLPASQ
17442	47810	A	17548	1	2382	

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17443	47811	A	17549	1	2194	MAPEQGRVSILQTLFIEYHGYSI FVVKGDLPDCEADQLLQMIRV QQMHRPKLIGEELAQLKEQRV HKTDLERVLEANDGSGMLDED EEDLQRALALSREQEIDMEDEEA DLRRAIQLSMQGSRRNISQDMT QTS GTNLTSEELRKRREAYFEK QQQKQQQQQQQQQQQGDLSGQ SSHP CERPATSSGALGSDLALLL TQSLF GSLFTWTRVTFGAEDPG QEDSFRRRVPCPCPHSVRRSTY DLGSSDQPAQGT SHEFQIGLLL TRLSQVPILQPPVPHPIILLSPPP HTVSG LQFLSVTSPPLPAQQFLL KEVAGAEGIAKVIPTCPVPLL QDILTKLSASLIIPGLQPHLIATL LPNPKPPSPLPLVSPNLNPQVW DTSTPSLATDQTPITIPLKPNHP YLAQCHYSIPQLALRGLKPVIT RLLQHGLLKPINSSYNPILPVQ KPD KSYRLPQDL DLINQIVLPIH PVASPHIIPDTTPDPHDCISLIHL AFTPFPHTSFFPIPHPDHTWFID GSSTWPNRHSPAKVGYAIVVSS TSILEATALPPSTTSQQAELIALT RALALAKGLHVNIYTD SKYAF HILHHNAVIWAERGFLSTQRSSI IIASLIK TLLKAALLPKEAGVIH CKGHQKASDPIAQGNAYADKS DNGLAFTSQI/HKQFLRLLVFS GTFIPLTVLNLQERTGQYFYLLP FTELEPVLEKLQGT VHLNFYMD
17444	47812	A	17550	1	355	
17445	47813	C	17551	99	335	
17446	47814	A	17552	21	447	LGPLPFS LSPCCLHCQGKRLCG HHEEARRRKNVSIPRKEAGIIHC KGHQK/A/SDPIAQGNAYADKT KFLDLAFPPLRLSFTCQITQAVS QALGIQWNLHTLTILNLQKRIR ACPQDATGYSPFELLYGCSFLL GPSLIPDTSPT
17447	47815	A	17553	119	239	TQKGQRAALFLICILSPSPLPTL GKNFKN*IPALKPHNRI
17448	47816	A	17554	1	798	
17449	47817	B	17555	460	1059	

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17450	47818	A	17556	3	1476	IPTCPVPLLQGDI LTKLSASLIIP GLQPHLIATLLPNPKPPSPLPLV SPNLNPQVWDTSTPSLATDQTP ITIPLKPNHPYLAQCHYSIPQLA LRGLKPVITRLLQHGLLKPINSS YNSPILPVQKPKDKSYRLPQDL LINQIVLP IHPVASPHIIPDTTPDP HDCISLIHLAFTFPHTSFFPIPH DHTWFDGSSTWPNRHSPAKV GYAIVVSSTSILEATALPPSTTS QQAELIALTRALALAKGLHVNI YTDSKYAFHILHNAVIWAER GFLSTQRSSIIASLIKTLKAAAL LPKEAGVIHCKGHQK\ASDPIA QDNAYADKLAKKAASVPTSVP HGISQAPPPLPTHQARYWQIDF THMPRVRLKYL LVWVDFTG WVEAFPTGSKKATAVISSLLSDI IPQFSLPTSIHSDSRLAFISQITQA VSQALGIQWNLHISYRPQSSGK VEQTNGLLKTHLTKLSLQLKK DWTVLLPLALLRIRACP
17451	47819	A	17557	24	594	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQTDQPKHELTNFKS GCSSPGPARSQFFLSLRSTL*SF YHLPSSHLVCLTVSFRD*PSPTC PAIDS*KGG/CELKA/RVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAPYHV RSACFPFAFCHDCQFPEASPEAE AAAILSVQPAEP
17452	47820	A	17558	1	1152	
17453	47821	C	17559	301	462	
17454	47822	A	17560	1	423	
17455	47823	A	17561	421	856	KLINLFSNFCSYSRQFLSFSTL YFVWVFCYNRCCFSK*RMIVHI TNRDINCQIAYARIEGDMIVCA AYAHELPKYGVKVGLTNYAAT YCTGLLLAHRLNRFGMKIC YLDAGLARTTTGNKVFGDLDG GLSIPQSTK*FPGYD

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17456	47824	A	17562	3	1082	GPLCIALALQEFGTTRRRWACRS LSSSGRRSLFRRMGSVKAVKNK AYFKRYQVKFRRRREGKTVDYY ARKRLVIQDKNKYNTPKYRMI V\RV\TNRD\NICQMLYA/RRIEGD MIVCAAYCTPNLPKIWV*RVGL TNY\AAA\YCTGLLL\ARLLP*/ RFGMDKIYEGQ\VELTGDEYNV ESIDGQPGCLPPAYLDAGPCSE PTHWPLKFFGAPEGKLVWGGL SIPSQYPNRFPGYDSEKQRNFN AE\VHRKAHSWGQNCRCFTWR YF\MEED\EDAYKK\QFS\QYIK\ NSVT\PDMM\EEMY\KKAHA AI RENPNVLWKR\RPK\KEV\KKKRW NRPKMS\LAQ\KKDRVAQKKAS FLQSSRSGLLES\LT\PAIFP
17457	47825	A	17563	2	4967	
17458	47826	A	17564	56	284	RQTRRAAGIVRGDCPASSPTNC DLGQC/NSTS/LEPRFVQTVHLL CPWT/GGSSPLLAARGSLPVSL GPLKPMVSCAGR
17459	47827	A	17565	1	3525	
17460	47828	B	17566	35	3691	
17461	47829	B	17567	80	3787	
17462	47830	A	17568	225	507	
17463	47831	A	17569	2	2621	
17464	47832	A	17570	14	1658	
17465	47833	A	17571	1	3654	
17466	47834	B	17572	1	3570	
17467	47835	A	17573	1	3663	

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17468	47836	A	17574	485	2347	TEPKTKTT*LSQ*MQKRPLTKF NNTSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKVSLEFADD MIVYLENPTVSAQNLLKLIGNF SKVSGYKINVQKSQAFLYTNNR QTERQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENNKPLLKEV KEDTNEWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRACIAKSI FSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIAQWNRT EPSEIMLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KVKLDPFLTPYTKMNSRWIKD LNVRPKTIKTLEENLGITIQDIG VGKDFMSKTPKAMATKAKIDK WDLIKLKSFACTAKETTIRVNRQ PTTWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDV NRHFSKEDIYAAKHKMKCSS SLAIREMQIKTTMRYHLTPVRM AIIKKS GNNRRIQ/GGIWCDRIL* R*TTCTVAKAIQSL*RRJ/WKRL QRTLSIPVLDAV*PPMF*ASVID TMTI*CFEARDTCFTLTLESFWD MHRCLAASKGIGLLLC*PLIWH MSLMGVKSPPFVFSLWTSVAV
17469	47837	B	17575	1	3354	
17470	47838	A	17576	1	3297	

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17471	47839	A	17577	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPI TGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEEI LPNSFYEASHILIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MISIDA EKA FDKIQPFMLKTL NKL GIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWKGDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKKSGNN
17472	47840	A	17578	1	3514	MELKTKARELREECRLSRSCD QLEERVSAMEDEMNEKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRT PQRYSLRRATPRHIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
17473	47841	A	17579	1	3693	

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17474	47842	A	17580	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPGSDVGLEADFSPSH TLKTQFFSCLAEFAAASCFFQR MNGFGMAMTTTSTGAESPL PSCSIDQGDDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWLRPTSHLPPCSSSAWW TEQTDHPLLFLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTVPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMS YDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINS LR NKEVKGALKRGLRWRAAPQE
17475	47843	A	17581	1	3042	
17476	47844	B	17582	1	3384	
17477	47845	B	17583	1	3264	
17478	47846	A	17584	1	3780	
17479	47847	A	17585	1	3165	
17480	47848	A	17586	1	3894	
17481	47849	A	17587	1	3345	
17482	47850	A	17588	523	3981	
17483	47851	A	17589	1	3429	
17484	47852	A	17590	1	3921	
17485	47853	B	17591	1	4797	
17486	47854	A	17592	1	6499	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKV NK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLKELEKQE QTHSKASRRQE ITKIRAE LKEIETQ

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17487	47855	A	17593	1359	2520	IQCHPHQATNYFLHRIGKNYFK LHMEPNKSLHSQDNPKQKGTK LEV/CTLPDFKLYYKATVTKTA LYLYQ/NQRCRSMEQNRALRN NATYIYNYLIFDKPEKNKQWG KDTLFNKWCWENWLAICRKLK LDPFLTPYTKINSRWIKDLNVRP KTIKLEENLGNTIQDIGMGKD FMSKTPKATATKAKIDKWDLIQ LKSFCTAKETTIRVNRQPTWE KIFGIYSSDKGLISRIYNELQQIY KKKTNNPIKKWVKDMNRYFSK EDIYAAGRHMKKCSSSLAIREM QIKTTMRYYLTPLRMAIKKFG NNRQETVREMACLLSGTMDFR HRACFVLSKPDFSTRWPGADA QRPPVLVVVALDSSLPPQASG QRPPSLEDVDGGAGALVAPC
17488	47856	A	17594	1	1227	
17489	47857	A	17595	2	2774	NLCSLIPLREVTIVEKADSSSVL PSPLSISTRNRMFTLFANLKDRD FLVQRISDFLQQTTSKIYSDKEF AGSYNSSDDEVYSRPSSLVSSSP QRSTSSDADGERQFNNGNSVP TATQTLMTMYRRSPPEEFNPKL AKEFLKEQAWKIHFAEYGGQIC MYRTEKTRELVLKGIPESMRGE LWLLSGAINEKATHPGYYEDL VEKSMGKYNLATEEIERDLHRS LPEHPAFQNMGIAALRRVLTA YAFRNPNI
17490	47858	A	17596	1	3472	
17491	47859	A	17597	1	900	
17492	47860	A	17598	1	1290	
17493	47861	A	17599	153	3834	
17494	47862	A	17600	299	1184	
17495	47863	A	17601	1	729	
17496	47864	A	17602	1	2232	
17497	47865	A	17603	36	224	TQWGPSVCWCLIPWPSFPDQ*P GF*AVLLPWRCQGFWPLLLAC APAGPATAAEPVSSPAEP
17498	47866	A	17604	1	624	
17499	47867	A	17605	1	578	RDLDFSLPQDITLVHYVDGIM LIGSSEQEVASTDLLVRHLHA RGWEINLTKIQGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSADRDVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPPERQLLACYWALVETE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17500	47868	A	17606	1	282	PIYRVSRKAANFEWSPEQEKAL QQVQAAVQAAWPLGPYDPAD PMVLEVSADRDADWSCWQA SI/GHKVGHAAQQHSIIKWKWYI RDWARADPEGT
17501	47869	A	17607	1	338	SIYLVQTQKAA/SSEWGPEQEKA LQEVQAAVQAAALILEPYDPAGP VVLEVSLADRDAVWSLWQAPI GESQQRPLGFWSKALPSSA/DH KACHAQQHSIIKWKWYIHDRA RAGPEGT
17502	47870	A	17608	1	757	
17503	47871	A	17609	1	1317	
17504	47872	A	17610	2	24	LCQRLLLAEPNEKPGSLGNVM AVARIEIGICEYYHEKTTEKALD SHGVLASTIKGVRSFQRNLEL KLPATERATANAIELLTVLDQA YENFAPQILPSTGSPTSQETAQF KANQNKPLVRGKGSPHEAIRYI SAAHREWKPAILTSAIRSF CST WLVFTSKNFPKLVTHQGSTIAG NGQSSDETQVQGAAWKSDSRG TKRQIPTWILAEGNNAGAQLDI PGPTIPAPNCSLKVPQSWSTTPS MPSSLGKAYWLLACYWALVET E/RLAMGHQVTM\KPELPVMN WVLSDPSSHKVGGAQQHSINK WKWYIRNRARAGPEGTS*LPAP LIG
17505	47873	A	17611	1	1815	
17506	47874	A	17612	875	1916	PGKQGLEWTPRKLQQTCKRGA GQLEEKLANRKQ*HQH*QKG*P /PQKLNADHNSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNFDKRLEEL LIQITSLEKNISDLMELKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RGYHN*S \\QEIQT TIREYYKHL YANKLENL EEMDKFLDTYTLPRLNQEEVEP LNRPITSSEIEAVINSLPNQKSPG QTNSQLTSTRDAEKAFNKIQHP FMLKTLNKL DIDGTYLKITRAI/ S*QTHSQCHTEWAKAGSIPFEN RHKTRMPSLTTPIQYSIGNSGQ GNQEFWKLHLVEREW
17507	47875	B	17613	1	1158	

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17508	47876	A	17614	851	1344	IILKPSPSPLYPWKNCLPRNP SLVPKRQTGSGVDIWQTAADLQQ RGLLEGKLTNRKE*YQHQQKR CPHQNPISRPTSNTKARE/QNW TENEFDELTEVGFRRWITNSSQ LKEHLLTQCKEAKNLEKRLEEL LTRITSLEKNINDPMELKNTAEE PHEAYTSINS
17509	47877	B	17615	99	716	
17510	47878	A	17616	1	588	
17511	47879	A	17617	1	1140	
17512	47880	A	17618	1	774	
17513	47881	A	17619	3	527	AENSKKQNASSPPND/RNSS/EA QNWTENEFDELTEVGFRRWIV TNSSKLKEHVLTQCKEAKNLD KRLQELLTRITSLEKNINDLMEL KNTARELREAFTSFCVNCEAVS LITSLREDSHWLEDSEKGRH/R RHQE*KCEYFHPPHPGLQFYQL PESDSHSDPLWPHGGSFLSSVV
17514	47882	A	17620	1	1383	
17515	47883	A	17621	1	990	
17516	47884	B	17622	337	1515	
17517	47885	A	17623	153	474	QTKSNVNIKKQDVHTKTPSEG HQHQRPKADHNSLPAREQNWIE NEFDELTEVGFRRWITNSSSEL KEHVLTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17518	47886	A	17624	1	771	MPFSDTERVITGPSTKVHSSYPG GLQALLQLRLHSLMWRWSAA VAIGVHVRCDLLAVHPVLWAV PQWQEPKMLTLIPGRITATII GLYQHEGIRAYCDSRVYYIKPS SGIESVLTRPSTQDHNSSPAREQ NWTENEFDELTEVGFKKWVIT NSFELKEHVLTQWKEAKNLEK RLANLLTRITSLENINDLMELK NTAQELHEAYASINSRINQSEER ISEIEDQLTEIEQVDKIREKRIK/R RNEQSL*EIWDYV

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17519	47887	A	17625	53	814	PGKQGLEWTPRKLQQTCKRGA GQLEEKLANRKQ*HQH*QKG*P /PQKLNADHNSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNFDKRLEEL LIQITSLEKNISDLMELKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RKEQAAI FAVLQPPLVITRQTGSGVDPQK TPADLQKRCRTVRRKTSQQA VASTLTKRITTQKLNADHNSS PTREQNCTENEFDELTEVGFRRWVITNSSELKEHVLTQCKEAKNFDKRLEELLIQITSLEKNISDLMELKNTARERWKHTQVSIKSIKQKWTASQTNKEEKREESNSTIKNDKGDITTDPTIEIQTIREYYKHL YANKLENLEEMDKFLD TYTL PRLNQEEVEPLNRPITSSEIEAVI NSLPNQKSPGQTNSQLTSTR
17520	47888	A	17626	1	1566	
17521	47889	B	17627	1	1005	
17522	47890	A	17628	1	2172	
17523	47891	A	17629	1	504	
17524	47892	A	17630	2	1601	
17525	47893	C	17631	132	278	
17526	47894	A	17632	380	828	EVL RVMIELNAVIYPYPKDTGC QPLV*HAAASLNSPEVMGATQ LKPLRPCKKCPKILEGGH*EW MEARHRNLGTLHGLPCSRTHF* TTTAQGEWLCCCLCHCGEHPQG GRHPCIC*HCYSCHTLAPPVQW TPNVAEPDNKAGA QYKSPRV
17527	47895	A	17633	1	963	
17528	47896	A	17634	2	368	EFSDPIHHTFDH MWRTKEHNE AGWLLLSSVDKVMKENDELGD SISQLQKQILSLKSAKIALSES LI SCRERTEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD P
17529	47897	A	17635	1	1881	
17530	47898	A	17636	755	939	ARKNTRIISYGVCKNVETWR* MFCTLLGRQQGCATVGKGDR C GPLRYYASWRKGDV LQGD
17531	47899	A	17637	367	423	
17532	47900	A	17638	3	1925	
17533	47901	A	17639	1	1137	

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17534	47902	A	17640	153	474	QTKSNNVNIKKQDVHTKTPSEG HQHQRPK\DHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17535	47903	A	17641	1	1068	
17536	47904	B	17642	1	717	
17537	47905	A	17643	585	2302	VLQLLRQERLELFVPPGELVVS LASGVKLQTFAGGKAWLLQTH SDLGEQKLTTFIPISLSLKVIFWC NWPEAKTAAVDGEQATCEPVL KAMFLADTHLLREFLGHWLDK LRREWQVERAFQTALWLLQPE VVFILEDVFDEGK WSTSEAWV DDVEQFRKMFRHPSHVQLKVV AGNHDTGFHYETNTYEVRWR NRNPNPSFIMGSITPTDYALSKCH LPPEDVVLIIYCGVKLPDRIVDS KAGLLKLPVLKNVISTQLQFPSI MDQLLVYNLFNETSPLVMCLD VMAMSNRGNHHLAATRLRKV LDHNSLPAREQNWTENEFDELT EVVFRRWVITSSSELKEC/DVLT QWKEAKNLEKRLDELLTRITSL QKNINDLIELKNTAQELHEAYT SINSQIDQVEERISEIEDQLNEIK CEDKIREKRMKRKNQTLQETW DYVKRPNPCWIGVPESDGENG TKLENTLQDIIQENFPNLRQA NIQIQEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAGEKE DETDDNEFFLWSQKGKRAGTL NDHVEESCPPTKNACLGTPIHC
17538	47906	A	17644	1	282	PIYRVSARKAANFEWSPEQEKAL QQVQAAVQAAWPLGPYPAD PMVLEVSVADRADWSCWQA SI/GHKVGHAAQQHSIIKWKWYI RDWARADPEGT
17539	47907	A	17645	3	903	
17540	47908	A	17646	1	349	
17541	47909	A	17647	1	489	
17542	47910	A	17648	1	352	
17543	47911	A	17649	1	505	KTDGSRMRTVDYHKLNQVAT PVA AAVPDVVSLLQINTSLDT WYAAIDLGNVFFSIPVHKVHQK KFAFSWQQQYTFVLPQGYIN SPALCRHFVRRHLD/RFSLPQDI TVVHYIDDIMLVG\PLIYRMTR KAAIFEWGPEQKALQQVQAAV QAALPLGPYPADPMRLR

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17544	47912	A	17650	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGEKTDGSWRMTVDYCKL NQVVTPIAAAVPDVVSLLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTDLLVRHLCATGWEINPT KIQGSSTS VKFLGVQWCGDCR DVPSKV KDKLLHLAPPTTKKEA QHLTGLFGFRKYIPYLGVLCC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAALPLGPYPDPAGP MVLEIAVADTEAVWGH/WHSA SFPSHPCHCPMPG*TKWP*WQG WRLCMGSATWTSTHEG*PGYG HQ*VPNLPAAETNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AEHLLWIWVCLSCMQCFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRTVERPFEIT TTMPTSQESRVQESRGGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNNSIK L*VKIATWTLWAPPTSKL
17545	47913	B	17651	47	838	
17546	47914	A	17652	1	1566	
17547	47915	A	17653	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGGRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSPHTCSWRRHLLSSCPYT GMSFPIPPSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGSWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTW/LCHNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHHP KVDSCSTTAPF*DIPEGQQL
17548	47916	B	17654	179	1219	
17549	47917	A	17655	1	2655	

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17550	47918	A	17656	1	942	MVGKAKWKPLELPLPRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTDGS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHQKPFASW QG/QQYTFTVLPQDYINSLAL*H NLIWRDLDFLLQLDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLVIHDQAQTGPEGTTTSVI AQWAHEQSGPGSRDGGYAWA QQHGLPLTKADLATTAECPVC QQQRPTLSPRYGTIPSLPLTKAL TLQLKKCSSGPMLMEFTGLAM FPIILKQLD
17551	47919	A	17657	1	868	
17552	47920	A	17658	83	346	
17553	47921	A	17659	1	643	MVGKAKWKPLELPLPRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTDGS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHQKPFASW QG/QQYTFTVLPQDYINSLAL*H NLIWRDLDFLLQLDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLVIHDQAQTGPEGT
17554	47922	C	17660	38	202	
17555	47923	A	17661	3	410	LKSRQAPRCEVESVTHEEVYIT RKELFEFSNLYRKKSQGEQIREWI LRKTDGSWRITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWLCHNLIWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLL
17556	47924	A	17662	2	526	
17557	47925	A	17663	2	431	
17558	47926	B	17664	55	1506	
17559	47927	A	17665	1	753	
17560	47928	A	17666	73	310	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVVSADKDAVWI FHLSGSDRWRRTYRCL
17561	47929	A	17667	323	687	KTDGSRW/TVDYRKLNQVVTPI AAAVPDVVSLEHINISPGIW/H HQQQFAFS*QQQFT/FTVL/PH GYINSLALCHNLIIRDLDFSLP QDITLVHYIDDIVLTGSSEQEVA GS\LESTCRHTKV
17562	47930	A	17668	3	1363	
17563	47931	A	17669	1	1203	

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17564	47932	B	17670	130	1374	
17565	47933	A	17671	1	1063	
17566	47934	A	17672	3	239	
17567	47935	A	17673	231	368	NKHQEDSLKPPIPGPSSWTAF/P KPTLGQKGTCTCKTEKKKKKKK GRI
17568	47936	A	17674	1	1270	
17569	47937	C	17675	100	270	
17570	47938	A	17676	459	1978	
17571	47939	A	17677	35	347	VVRAWYPGWGQGSEKEWQW DQQEALGRVRGSKVTGEWEGR AGPEGTGQNGEGPRGILEVGGT TAPFCLAEGEWGPGGHPHLLF PPSPRRPPPQPPPTPPEPPS*PPSP PRPPPQPPPTPPEPPS
17572	47940	A	17678	236	397	NWLQPCG*AHPTGSGFPAPKLC PASPGAPFSNEVLSEPGPTLAPM PT/GAPCRSHGAGHSGDPGWPS SSPTGEDTNSAGPGAARVQMG CGHCVSLVPR*/CCWTPGGA
17573	47941	A	17679	132	492	TDHRDRDKHPPALPASAMDK KNA/GQEGRPGASRGSSPMATA TTGPQGVMPGYH*CSLRPKGSS VGLW*MLPGLGLTLQDSGLPS GPRQVQNYCPGAKALNQGPQE PA*CKASNQRPSVYLPPTREYPS EQIIVTEKTNILLRYLHQWTK RTLPRRKTRSKQRKLTYGYCH YRSTGSNARLPLMFIKTQGFFS RLVVDAAWPGTHPSGQWAPF WPKAGPELLSRSQGFESGTSRA RLMFYPTMAAPVVK
17574	47942	A	17680	618	755	
17575	47943	A	17681	796	1092	
17576	47944	A	17682	1	391	
17577	47945	A	17683	1	697	
17578	47946	A	17684	1	888	
17579	47947	A	17685	749	1667	
17580	47948	A	17686	1	2088	
17581	47949	A	17687	189	438	
17582	47950	A	17688	387	497	

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17583	47951	A	17689	1	728	MAQEIEGDRLFRARLTRRVQG KGPCGPLKAPLGMVPECHSVK PSRDTFSTKSKFALLSFLKIP AIDVHKPIDHPINFTFDPGHRA PARHRHSTAAAVTMSPSGP/PA AAPSPCSPIPRHG*GPLRATSYC PVSWKQKQNSVSNKQTNEQTK TAKAEGARSRGPRNKIPGLPPG PRSGRLRIWLPPPREGSGFQTPAR GHPQPPCSGKGTQCQSIAQNLA SRISPVGTSCGRTSRQTIRVRK
17584	47952	A	17690	1	819	
17585	47953	A	17691	1	2115	MSGYSYSSVWAEDDIQFDSRFL LKGDTKIDLKRFSSQGYVEPGK YNLQVQLNKQPLAEEYDIYWY AGEDDVSKSYACLTPELVAQF GLKEDVAKNLQWSHDGKCLKP GQLEGVEIKADLSQSALVISLPQ AYLEYTWPDWDPSPRWDDGIS GIIADYSITAQTRHEENGDDDS NEISGNGTVGVNLGPWRMRAD WQTNYPQHTRTQLALGEDYLNS DIFDGLNYVGGSVSTDDQMLPP HLRGYAPDISGVAHTTAK
17586	47954	A	17692	1	1080	
17587	47955	A	17693	1	253	
17588	47956	B	17694	1	1069	
17589	47957	A	17695	1	764	
17590	47958	C	17696	136	990	
17591	47959	A	17697	1	1422	
17592	47960	A	17698	547	1017	
17593	47961	A	17699	176	431	
17594	47962	A	17700	1	846	
17595	47963	A	17701	1	1815	
17596	47964	A	17702	1	1578	
17597	47965	A	17703	1	1149	
17598	47966	A	17704	22	441	
17599	47967	A	17705	828	920	
17600	47968	A	17706	1	231	MESKRLDNA/CAGGGD*PQLH QCPR*TAVD*RRNQTAFA*RDA STYRHESGGNASPECHGLYQR QKNADGGGGQRRI
17601	47969	A	17707	1	563	
17602	47970	A	17708	19	372	
17603	47971	A	17709	134	491	
17604	47972	A	17710	1	969	
17605	47973	A	17711	59	839	
17606	47974	A	17712	186	725	
17607	47975	A	17713	1	251	
17608	47976	A	17714	1381	2217	
17609	47977	A	17715	357	804	

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17610	47978	B	17716	1	2361	
17611	47979	A	17717	1	2832	
17612	47980	A	17718	1	3477	
17613	47981	B	17719	143	3122	
17614	47982	A	17720	1	3018	
17615	47983	A	17721	1	4371	
17616	47984	B	17722	1	2010	
17617	47985	A	17723	1	2168	
17618	47986	A	17724	1	2067	MKEIEIQKSLPKINESRSWFFEKI HKIDRLLARLIKKKREKNQIDTI KNDKGDITANPTAIQTTIREYY KHL YANKLENLEEMDKFLDTY TLPRLNQEEAESLNTPTITGSDIE AIINSLPTKKSPGPDGLTAEFYQ RYKEELKKEGILLSSFYEASILLI PKPGRDTTKKENFRPISLMNID AKILNKILANRIQQHIKKLIHHD QVGFIQGMQGWFNICKSINVIQ HINRTKDKNHTIISIDAEKAFDK IQQPFMLKTLNKLIGDGTLYLKII RAIYDKPTANIILNGQKLEAFPL KTGTRQGCVPSPVVFNTVLEVL AREIRQEKEIKGIQLGKEEVKRS LFADDMIVYLENPIVSAQNLLK LISNFSKVSQYKINVQKSQAFI YTNNRQTESQIMSELPFTIAPKR IKYLRQLTRDVKDLFKENYKL LLNEIKEDTNKWKNI PCSWVGR INIVKMAILPKGIHRFNAPIKLP MTFFTELEKTTLKFIWNQKRAR IAKSILSRKYKAGGSMLPDFKL CYKATVTKKAWYWYQNRDID QWNRTEPSEIMPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LTICRKLKLDPFLTPYTEINSRW IKDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMATKAK IDEWDLCLKISFCTAKETTVR VNRQPTIEWETIFAIYSS
17619	47987	A	17725	1	3457	
17620	47988	A	17726	1	3630	
17621	47989	B	17727	1	3384	
17622	47990	B	17728	1	2199	
17623	47991	A	17729	1	3924	
17624	47992	A	17730	1	3345	
17625	47993	A	17731	1	2382	
17626	47994	A	17732	1	3720	
17627	47995	A	17733	1	3894	

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17628	47996	A	17734	1	2427	MGCVRQIIPLGTHPVVHQLTSIP QNCQSPQKTRKDREIGQPRGAY GDMRSKCNVMLMMESWNRKR TLEIQTIREYYKHLTYTNKLENL EEMDKFLDTYTLPRLNQEEVES LNRPITHSDIVTIINSLPTKK\SPG PDRFTAKFYQRYKEELVPFLK LFQSIEK/EGILPNSFYEASIILIPK LGRDTTKKENFRPISLMNTDAK ILNKILANRIQQHIKKLIQHDQV GFIPGMQGWFNIRKSINIIQHIN RIKDKNHMIIISDAEKAFDKIQQ PFMLKTLNKLIGDGYLKIIRAI YDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEALAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTS NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWIGRINIV KMAILHKALYRFNAIPIKLPM FFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLPDFKLHY KATVTKTAWYWYQNRDIDQW NRTEPSEIIPPIYNYLIFDKLDKN KKWGDCLFNKWCWQNLAI CRKLKLDPLLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFVTYSSDKGLISRIY
17629	47997	A	17735	1	3780	
17630	47998	A	17736	1	2808	
17631	47999	A	17737	1	4842	
17632	48000	B	17738	331	3282	
17633	48001	A	17739	1	2880	
17634	48002	A	17740	1	3213	

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17635	48003	A	17741	1	2561	MKAEIKTFFETNKNKDDTYQNL WDTFKAVCRGKFIALNAHKRK QERSKIDTLTSQLEKEKQEQT YSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFKINKIDRP LTRLIKKKREKNQIDSIKNDKG DITTDPTIEIQTIREYYKHLN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIGSEIEAIINSLPT KKSPGPDGFTAIFYQRYKEELV PFLKLFQSEIEGILPNSFYEAS IILITKPRHTTKKNFRPISLMNI GAKILNKILANRIQQHIKKLIHH DQVGFIQGMQGWFNIRKSINVI QHINITNDKNHMIISIDAENAFD KIQQRFMLKTLNKLIGDGMYL KIIRAIYDKPTATQNLKLIGNF SKVSGYKINVQKSQAFLYTNNS QTESQIMTELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLSEIK EDTKKGKNIPCSWVGRINIMK MDILPKVIYTFNAIPIKLPMTFFT EVEKTTLKFCNQKRARIAKSFL SQKNKAGGITPPDFKLYYKATV TKTACYWYQNRDIDQWNRTEP SEIMQHIYNYLIFDKPDKNKQW GKDSL FNKWCWENWLAICRKL KLDSFLTPTKINSRWIKDLNIR PKTIKLEENLGSIIQDIGMGKD FMSKTPKAMATKAIIDEWDLIK LKSFACTAKETTMRVNRQPTW EKIFATYSSDIGLISRIYNELKQI
17636	48004	A	17742	1	5042	MTGSNSHITLTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSHSAIKLELRJKNLTQS RSTTWKLNLL
17637	48005	A	17743	101	471	MLSRILASRNRMRFAVEVVR VRE/RVGNDFIIIYRLSMLDLVE DGGTFAETVELAQAVEAAGATI INTGIGWHEARIPTIATPVPRGA FSWVTRKLKGHVSLPLVTTNRI NDPQVADDILSSTH
17638	48006	A	17744	161	311	

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17639	48007	A	17745	221	799	
17640	48008	A	17746	20	346	
17641	48009	A	17747	431	1578	
17642	48010	A	17748	1	771	
17643	48011	A	17749	3	863	AVLRREMQRMEGAWLGSDLV DQGKERLNRLLGFFETVDTDTQ RV/PGSPDQVDVVYKIVSLGGR LFYNDFQADDADLSDYTNKKIE IIDSHADYFHIDIMDGHFVFNLT LSPFFVSQVKKLATKPLDCHLM VTRPQDYIAQLARAGADFITLH PETINGQAFRLIDEIRRHDMKV GLILNPETPVEAMKYIHKADK ITVMTVDPGFAGQPFPEMLDK LAELKAWREREGLEYEIEVDGS CNQATYEKLMAAGADVFI VGT SGLFNHAENIDEAWRVMTAQIL AAKSE
17644	48012	A	17750	2	893	
17645	48013	A	17751	139	2057	
17646	48014	A	17752	2	361	
17647	48015	A	17753	497	897	PRASFSAWLAF CST/TKDSHPL LAQLLDGVENLDHRQHLLFTA GHGARPLIRAHADVEENDHPF ILIVHPSIHPIIYLSIHPSTIRGERL MTQIPLIKHFLAGVTGLKLTQQ MRFCE NVCLPLIATAGNRQTH
17648	48016	A	17754	83	1038	PSRAGHLPPKIKSSMAGTTPCLS IMVRQRK/PLVPAPLYQGM RDG KIVRFEEITRTPLEVQDCLLASA LALGLALMGNAQAVTIPFWH SMEGELGKEVDSL AQRFAEN PDYKIVPTYKGN YEQNLSAGIA AFRTGNAPTYFAGHIMQACGV ALSATIYFIRRKVVSLSDQKLNI AMTFVGSM SGALLVQYVQAD VLRQILPILVICIGLYFLLMPKLG EEDRQRRMYGLPFALIAGGCV GFYDGGFFGPAAGSFYALAFVTL CGFNLAKATAHAKLLNATSNIG GLLLFILGGKVIWATGFVMLVG QFLGAPHGVP TCV
17649	48017	A	17755	571	1728	
17650	48018	A	17756	332	511	
17651	48019	A	17757	581	637	RALR*SLQDGS AKRGASVS
17652	48020	A	17758	1	1098	
17653	48021	A	17759	1	366	

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17654	48022	A	17760	321	611	GEGENYCDSVVMTWVAI*QN WQCHCCSLRCASLRQG*RQDV TDTRGETIKREMARNWV/WRA RVINAGFSRGSLLRGPISDHRRK RLSASIRQFYPRP
17655	48023	B	17761	95	645	
17656	48024	B	17762	1	3978	
17657	48025	A	17763	1	328	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSKFNK RGFNQVLPKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKT NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLLERVGLSAHANKFP AHYSGGQQQRVAIARALCMDP IAMLFDEPTSAIDPEMINEVLD VMVELANEGMTMMVVTHEM GFAVKWRIGSTQQAQLHCNR WLHVRKHLLVAYYNLVGIKPG KESYMRLEKALDDFCQSLVD YLSAGHFSIYERILHKLEGNGQ LARA AKIWPQLEANTQQIMDY YDSSLETAIDHDNYLEFQQVLS DIGEALAAAFVLEDKLILLVLD AAR*NLLKLKVIMIDGGFQTGI VVIHNLISIGFELRPNLRGAREL PVAFQLMKNALINTEMSGRQVI DQALTKIIKGFFV
17658	48026	A	17764	216	473	DALRVASGNGCYSALLPLFCRL L*AESA*VPVQRPCGETLMRSS VVCLGGTAPECSSLGCAEKSGR SWPRKVAHTLGSWTVPRES
17659	48027	B	17765	1	1570	
17660	48028	A	17766	1580	1764	PASSLVMR*CLNRIA\SAHQPA VRAY*SASAPGIA*KENA*G*RL HHR*NPAGKPDPGLL
17661	48029	A	17767	1	1827	
17662	48030	B	17768	1	1281	
17663	48031	B	17769	72	1169	

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17664	48032	A	17770	20	552	SAGDA*DWFWHGGVAGGNG* RSP*A/VTSSALKCIHRALVRAW LLRMKKV*ATCA*CVTMLKLC CIK*/CPDNSLRMVQLFFDPWH KARHNKRRIVQVPFAELVSKL QLGGVFHMATDWEPYAEHML EVMSSIDGYKNLSESN DYVPRP ASRPVTKFEQRGHR LGHGVWD LMFERVK
17665	48033	A	17771	3287	3568	CAFQRNIWHAKLNASPTPVFVP **LLASLTIPMKPAAMPGGKMD WWRVCRASASRPCQK*SLCQT PASVNTLLTVTAVCCASMASTT TRLWKI
17666	48034	A	17772	1	3126	
17667	48035	A	17773	249	3943	
17668	48036	B	17774	1	2178	
17669	48037	A	17775	263	434	
17670	48038	A	17776	619	1184	MRTSCGSFIKRRVMRRIASGMV AENRAV**PSGICAIMVSTSSMK PMRSISSASSRTRPLSL/AEVQSA TFQVVQQTARSTDNDLRPLTQ GA*LHVITLAAVQS/IPHLRRAC V*RNPSLLQQPVPPVRGSPAP ESVVLSAQDQDSATEVKRMLQ FFRSPSGPYPERRGHSADVEYT LPELEMVFRNPDR
17671	48039	A	17777	1	1485	
17672	48040	A	17778	497	1838	
17673	48041	A	17779	534	922	
17674	48042	A	17780	1	458	MQQLEEALKQLAQSGSSQAL TQVRRWDSACQKLDPANLALI SVAGEYAAELANQALDRNLNV MMFSDNVTLEDEIQLKTRARE KGLLVMPDC/WYVDDCRHTA GFC*RDAGRQYWRHWRFRYR DSGAVFADCAGRGGNYSRDWP WRARPQP
17675	48043	A	17781	2	270	QAGKYYGGAVFAPVFGAIMGG VLRTMNIEPDALTSVDKNEFVI NHGEGTGGRS*FARPSCSVGAR RTFASTARD DTRQPCGCGGRSL CS
17676	48044	A	17782	1	1437	
17677	48045	B	17783	63	201	
17678	48046	A	17784	1016	1263	
17679	48047	A	17785	1	933	
17680	48048	B	17786	1	1888	
17681	48049	A	17787	845	2220	
17682	48050	A	17788	110	581	
17683	48051	A	17789	696	989	

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17684	48052	A	17790	199	573	
17685	48053	A	17791	1	3270	
17686	48054	A	17792	1	3018	
17687	48055	B	17793	1	708	
17688	48056	A	17794	264	512	FLAQWLPELPLSRHLRQCTWCR RHRNRW*VRSLHRCWLADCRC PELRIRSHDL*SLAQRSLYDRTR TPDRRQLRTVLHWLLC
17689	48057	A	17795	1	2109	
17690	48058	A	17796	1239	1854	YHDDRNQPDAGNPSNADSGPQ I*QATGSPRRLVRR\RWKRVNR LLAGKLAIVIDDFGYRPHNENQ VLAMPSAISVAVLPDSPHAREM ATKAHNSGHEVLIHLPMAPLSK Q/TAGEKYATPGDEQRRN*AHY S*\WVNNVPYAVGINNHMGSK MTSNLFGMQKVMQALERYNL YFLDSVTIGNTQAMRAAQGTG VKVITRKVFLDGFAG
17691	48059	B	17797	1	2243	
17692	48060	A	17798	74	295	TISVLWLMSLNTSKKRLA*TG SIGFFGLHSFTPRNGLRGASGTA FFGGVEVSTCGSFSKLLAFTSV MSGGRL
17693	48061	A	17799	1	1872	MLRIHCMQHWYNLSDGAMED ALYEIASMRLFARLSLDSALPD RTTIMNFRHLLAQHQLARQLFK TINRWLAEGVMMTQGTLDV ATIIEAPSSTKNKEQQRDPEMH QTKKGNQWHFGMKAHIGVDA KSGLTSLVTTAANEHDLNQL GNLLHGEEQFVSADAGYQGAP QREELAEVDVDWLIAERPGKV RTLKQHPKRNRTGISIAYMTGSI RARVEHPFRIIKRQFGFVTARYR GCLNTITNGDVFPLATWFGG
17694	48062	A	17800	1	1269	

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17695	48063	A	17801	1	1988	MNDSEFHRLADQLWLTIEERLD DWDGDSIDICEINGGVLTITFE NGSKIIINRQEPLHQVWLATKQ GGYHFDLKGDEWICDRSGETF WDLLEQAATQQAGETITGFRV YTLQLNAQLRLGFLRLPYSVNL ATEYKSLTHYTKVPEATNPSLE SSVDVKLSANRLKYPMMRKRL MKMWREAKALHSDPVEAWAS IIEDADKAKSFKQARGRGGFVR SSWQEVNELIAASNVYTIKNYG PDRVAGFSPIPAMSMVSYASGA RYLSLIGGTCLSFDWYCDLPP ASPQTWGEQTDVPESADWYNS SYIIAWGSNVPQTRTPDAHFFTE VRYKGTKTVAVTPDYAEIAKL CDLWLAPKQGTDAAMALAMG HVMLREFHLDNPSQYFTDYVR RYTDMPMLVMLEERDGYAA GRMLRAADLVDALGQENNPE WKTVAFNTNGEMVAPNGSIGF RWGEKKGWNLESIARIENPHF RSVKHNPVLVRQLPVKNLTLV DGNTCPVVSVDLVLANYG RGLEDENSAKDYAEIKPYTPA WGEQITRVPQYIETIAREFADT AHKTHGRSMILGAGVNHWHYH MDMNYRGMINMLIFCGCVGQS GGGWAHYVGQEKLRPQTGWL PLAFALDWNRPROMNSTSFFY NHSSQWRYEKVSAQELLSPLA
17696	48064	A	17802	3854	5726	
17697	48065	B	17803	1	1869	
17698	48066	A	17804	391	1246	
17699	48067	A	17805	58	1353	
17700	48068	A	17806	872	2123	
17701	48069	A	17807	1	1422	
17702	48070	A	17808	217	509	
17703	48071	A	17809	76	422	
17704	48072	A	17810	2	288	
17705	48073	A	17811	1	1626	
17706	48074	A	17812	779	832	
17707	48075	A	17813	1	1818	
17708	48076	A	17814	1	645	
17709	48077	A	17815	157	293	ALVCSSPWPSEKCKSKPQ*DTIS HQLWQSLKSQETTGADEVE K
17710	48078	A	17816	1	1446	
17711	48079	A	17817	1	306	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17712	48080	A	17818	71	513	TIRSGLGWSQMEMRNMLGTGA KKYKLPSENTINTSTQIN*KI*K KRINSSTHTLSQD*TRKKLNL*I DQ*QELKLWQ*SIAYQPKRVQD QMDSQ/REFYQRYKEELHINRA KDKNHMIIISIDA EKA FDKIQQR MLKTLNEVLMGRISK
17713	48081	A	17819	1	828	
17714	48082	B	17820	1	567	
17715	48083	A	17821	1	1224	
17716	48084	A	17822	1	897	
17717	48085	A	17823	207	547	NHFLQGLGPLLQFPTSSSSPSET TSAWTLCPHHYQAFGQSHSTSL *EV/HKLSHIFMSSEPSKLFQPL PVTQFQSRFHFYRLFSSIPLYW CQFTVLVHFPAADKDISVTTIP
17718	48086	B	17824	1	1128	
17719	48087	A	17825	1	765	
17720	48088	A	17826	1	952	
17721	48089	A	17827	1570	2176	FLQSTHLTKG*YPESTMNSNKF TRKKQPNQRAKDMKRPFKED IDAANKHMKKCSSLAIEMQI KTTMRYHFTPVMAIIKKSGNN RCWRGCGEIGTLLHCWWCKL IQPLWKSMMWRFLKDLELEIPD PAIPLLG IYPKDYKSCCYKDTCT HMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEYYGAIKR MSSCPL
17722	48090	A	17828	1	531	
17723	48091	A	17829	1	462	
17724	48092	A	17830	876	1111	
17725	48093	A	17831	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPGASGTGQARMGQ SHQWAF LWRKDAHVRKESGY MYSLYDRAYGERTTGRRGRGR GPIPRP
17726	48094	A	17832	1	1290	
17727	48095	A	17833	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSEFGLDEKLIHRPGE NEDAPVTHVYAVARLKDGGTQ FEVMTRKQIELVRSLSKADTD* PWMCPCPMKRKSAT
17728	48096	C	17834	1	786	

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17729	48097	A	17835	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSELAFDEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHTSGRTSDVKA AVELAK KNGAKIICITHSY!SPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHRR*RNWPIILFAHQPRK RRY*VVMPRQEYYN
17730	48098	A	17836	1	4806	
17731	48099	A	17837	1	466	
17732	48100	B	17838	193	1045	
17733	48101	A	17839	1196	2732	
17734	48102	B	17840	1	732	
17735	48103	A	17841	290	664	
17736	48104	A	17842	302	1716	
17737	48105	A	17843	249	909	
17738	48106	A	17844	36	340	
17739	48107	A	17845	902	1455	RRCVLRP/GLDIMRNRLNIRQQ QRLEQAAYEMTALRAATIELGP LVRGLPHLRTIHRQLYQDIFDW AGQRRITLINHGFPVKSTTVVET NGPSDQSIAMRRPGQTISRHHQV QKKLGIELTNCYEHSGLPDIKN VTGILICRQTHARPARLARLIFT ANKTNTINALVDIEVDDFFTD CQIDCCFETGSHSVLARLGAS AQDLQLDATSASHGSK
17740	48108	A	17846	1	1668	
17741	48109	A	17847	1	1080	
17742	48110	A	17848	1	907	MRAGFTSNVLTFLTCTSHFLNT FRAADV ANVQTATSNFRQIQVF EDIITQYNGKYILAVEGNPPLGE QGMFCISSGRPFIEKLKRAAAG ASAIHAWGTCASWGCVQAARP NPTQATPIDKVITDKPIIKVPGCP PIPDVMSAIITYMVTDFDRLPDVD RMGRPLMFYGGRIHDKCYRRA HFDAGEFVQSWDDDA\PKVT ACTKWAAGLPPITPVPHTLE* WVWSRLLAGGNGLDRGRFSGV DSSWISYLSSAISVTMAPATTLN QTSKAALAACAISTLCNGWPA VILAQHRWMKWSGLAS
17743	48111	A	17849	239	899	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17744	48112	A	17850	155	249	CMRRKTALTGGEPDR*TAMR* HNKSPALTGS
17745	48113	A	17851	1	1326	
17746	48114	A	17852	1	1394	
17747	48115	A	17853	46	705	
17748	48116	A	17854	2	488	
17749	48117	A	17855	563	687	LLARTSRQ*KTSLNCVNKL*MP SGQWAVLLLPCRCWWLRT
17750	48118	A	17856	1	1429	
17751	48119	A	17857	1	1037	
17752	48120	A	17858	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPGASGTGQARMGQ SHQWAFWLWRKDAHVRKESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17753	48121	A	17859	1	1290	
17754	48122	A	17860	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSEFGLDEKLIHRPGE NEDAPVTHVYAVARLKDGGTQ FEVMTRKQIELVRSLSKADTD* PWMCPMPMKRKSAT
17755	48123	A	17861	207	210	QLSLLNLPLDSIHHRLASSALK RVNDQVGAAPRHQSPPPRNA VSLAPRPVPVEWSCAKLLCLSC RVNCQD*GNKALTSIHFWGE GIVGKMWLFYCTEAHFVRDPS GYSN
17756	48124	A	17862	2	654	FCRQRCQVYRRGRFTHAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSELADEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMSASLLQEGDV VLVVTHSGRTSDVKAAVELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHR*RNWPILFAHQPRK RRY*VVMMPRQEYYN
17757	48125	A	17863	1	4806	
17758	48126	A	17864	1	466	
17759	48127	A	17865	214	907	
17760	48128	A	17866	1288	2757	
17761	48129	A	17867	705	839	AGRSRENRRYRAKQPRCGKR*F *CVYRFYPSGRYAEPSSAPNYT

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17762	48130	A	17868	199	1628	
17763	48131	A	17869	746	1013	TRARRRFITALRFSSLVSASPCC NWAAAFSSYFCQQIVR*PHFDR QEKRSVQNQPDGCSASQSVR QRPKSPQQPVQSANPSLLCR
17764	48132	A	17870	2	331	
17765	48133	A	17871	1	591	
17766	48134	A	17872	1	1197	
17767	48135	A	17873	45	3402	NRFSHISVTSACGWYHIPVEE/Q PEY/PGNLELERIRSAIRWNAI MTVLRASKKDLELGGHMASFQ SSATIYDVCFNHFFRARNEQDG GDLVYFQGHISPGVYARAFLEG RLTQEQLDNFRQEVHGNGLSS YPHPKLMPEFWQFPTVSMGLG PIGAITYQAKFLKYLEHRGLKDT SKQTVYAFLGDGEMDEPESKG AITIATREKLD/NLVFVINCNLQ RLDSPRWDELLRKDTSGKLIQL MNETVDGDYQTFK
17768	48136	A	17874	452	1395	LAGATGTAIRLILHAPLLLPIKM RLP/TVSEKPKDSIPAAEKFAAE NKNTYGALASLELAQQFVDKN ELEKAAQLQQGLADTSDENL KAVINLRLARVQVQLKQADAA LKTLDTIKGEWAAIVADLRGE ALLSKGDKQKGKHQRAENCEIQ GYIDMIKHLVAPLVFTSLILTGC QSPQGGKFTPEQVAAMQSYGFT ESAGDWSLGLSDAILFAKNDY KLLPESQQQIQTMAAKLASTGL THARMDGHTDNYGEDSYNEGL SLKRANVVADAWAMGGQIPRS NLTTQGLGKKYPIASNKTAQGR AENRRVAVVITTP
17769	48137	B	17875	1	1579	
17770	48138	A	17876	182	2069	

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17771	48139	A	17877	1	2017	MESGVATRPIADFDVYIDKLTE FVYKTNLFMKPIFSQARKAPKR VVLPEGEEARVLHATQELVTLG LAKPILIGRPNVIMRIQKLGLQI KAGVDFEIVNNESDPRFKEYWT EYFQIMKRRGVTQEQAQRALIS NPTVIGAIMVQRGEADAMICGT VG DYHEHFSVVKNVFGYRDGV HTAGAMNALLPSGNTFIADTY VNDEPDAAELAEITLMAAETVR RFGIEPRVALLSHSNFGSSDCPS SSKMRQALELVRERAPELMIDG EMHGDAALVEAIRNDRMPDSS LKGSANILVMPNMEAARISYNL LRVSSEGVTVGPVLMGVAKP VHVLTPIASVRRIVNMVALAVL FVNADETTVVNFHACFACVEV FTVRHTTNRYQHGVVTLRFSG CFFAFHRHINAVFFRFNIQAVFV ALRPEVIAIMHKLREQGHRVVV LSNTNRLHTTFWPEEYPEIRDA ADHIYLSQDLGMRKPEARIYQH VLQAEGFSPSDTVFFDDNADNI EGANQLGITSILVKDKTTIPDYF AKDKARHRTPLWAWLKLLW QRIDEDNMTLAGNLAYVSLLS LVPLVAVVFALFAAFPMFSDVS IQLRHFIFANFLPATGDVIQRYIE QFVANSNKMTAVGA\ASLAISS YLLSLIANVLMMLMS*SVLRMS WNPKWAWSSIWYS
17772	48140	A	17878	31	312	RGTGHCALYRRAAARCAKITL TTFISLFSSYFVIYNILLIYLIFA ASFCLLVV*CIITVFITVCSAGD VSGMSATWCAFWAISVDHFTG FNRF
17773	48141	A	17879	1	1098	
17774	48142	A	17880	1	1015	
17775	48143	B	17881	1	1917	
17776	48144	A	17882	931	1773	
17777	48145	A	17883	785	956	KKWMHSAV*WRKRSIRRVSSL GY*TQAKDRRFALPELRIVCS TVRRYVRRWRTNRT
17778	48146	A	17884	221	367	
17779	48147	B	17885	1	1318	

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17780	48148	A	17886	1190	1634	APSQTVSLPEVASSMSGVMAG VEAVSSPGPYAVCAGSLLPSGW LCVKTSVIAMIASAWSAPGAVS IKRSSAVSVRIWALCGA\QPECA VRSLPSYPAFRQVLAPVTHAL* PRRSSGCP*CDYSLQLLLQ*PAH *HLQGLLRKQLSCQR
17781	48149	A	17887	1	2499	
17782	48150	A	17888	454	1698	
17783	48151	A	17889	635	1665	KSIFWRAPADCEP/QVRQSAKV QFGDYQANGMMAVAKKLG APRQLAEQVLTHLDLNGIASKV EIAGPGFINIFLDPFLAEHVQQ ALASDRLGVATPEKQTIVVDYS APNRGFFGGGAPLGTTLQDLTR PTKEDGLQAKPISFWASFALQF VNVKILYGVLTALSTFVLPQTQ ALSWVVGVSVLLAMIGTFGNV CWALAGHLFQRLFRQYGRQLN IVLALLLVYCAAFSKGTSDNVA LLFRSQRVKANCITGYTDGQLR IFFRMLNCIFQS FATQNVNVQV LTTFNANFWHFYWNFTVFNV TQFAYCNHFIFCITCFNDATPF AFFAVQQPERVHRKTAILL
17784	48152	A	17890	73	212	
17785	48153	A	17891	2049	2445	VFPVFLRIYVFWKKPGMKVTN ARNWQLKPLFTLPTVILPDTQL HYVAWMELYS PAE*ERIQA*FV VWSWNIWLY*A*RLIQK*IIALT PVVRTGKTKLMSAILFNITHR MKAMNLLSPKRRLPPRNCGKK
17786	48154	A	17892	1	1476	
17787	48155	A	17893	332	572	RGGA*RQKHRRTSALSLLSLP* NMATAVHLHRFSTRRAVTSSS ARKWTNSGAMSGLN RASAVV LRV*QSPEDGCCARJR
17788	48156	A	17894	80	405	PRNLRSKGPPISDAISPTSKP*TI TEPISAPSLATYKAAGCGGTT QCTAINAVHSGMASFNNEVLV FLAIEKARGINSTTPTSTNSVMP QIRPTSTIMTSTESQRQR
17789	48157	A	17895	1	1392	
17790	48158	A	17896	1	1374	
17791	48159	A	17897	1971	2306	
17792	48160	A	17898	209	449	
17793	48161	A	17899	1	240	
17794	48162	A	17900	1	456	
17795	48163	B	17901	222	3807	
17796	48164	A	17902	3140	3219	
17797	48165	A	17903	240	298	

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17798	48166	A	17904	1902	2047	NQPVYRSNGD/RIWRTGKLFPT TVFRLIRTLSPRAFPPTS YRRC S VAY
17799	48167	B	17905	1	1994	
17800	48168	A	17906	1	2151	
17801	48169	A	17907	3	1127	GTPYASQP VIRPVEGSKPLIKQV LDIGA HGTDKTIAQKLARVAR MHFARQRLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVRQ LAHDGHEL VYVPCRSHMDYL LLSYVL YHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLIPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGQGYVNFGEPM LMTYLNQHVDPDWRESIDPIEAV RPAWLTPTVNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNCYLDLMRNVP
17802	48170	A	17908	192	486	PVLVYLWVSFSWLCGRSLVCD AFGCVLCVLCFWCGVCWGW F SRCLVLVRVLDCAVAWVCPL GVGIGLWV/RVLP TGLVSAVPC CCDVLARFRVDLCWG

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17803	48171	A	17909	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPTSMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNFTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLTGTINNKAL PGDSTSGVLRITYERLLTAWML TCPCADEHQRGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQQIAHMAKPT SSIDVPGRTINRFGEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTDIRC AQSIGSFSNGCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQRLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHHASHQTGLDV DIFLQLPKTRWTSAQLLRPQAL DLVSRDGGKHVVSTLWKPEIFSL IKLAAQDKDVTRIFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLDPLE PLEIDGTLLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMPVPSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFSVSLRRMADE HGTDKTIAQKLARVARMHFA RQRLAAVGPRLPARQDLFNKL
17804	48172	A	17910	1	734	
17805	48173	A	17911	1	962	
17806	48174	A	17912	1630	2633	
17807	48175	A	17913	1360	1600	HSTGRWATTINVPITCGTKARH STSSICKTGMILLWANALKQHC LLSRNLP*KGESINVANSLLSYF NLRPQCNCQTRTQD
17808	48176	A	17914	1	816	
17809	48177	A	17915	703	1546	
17810	48178	A	17916	209	485	QVIRPTFIPSTSSNGAISLPASTR RDS*MANAS*RCSLA*RATMFP A*SATSIFHARPGVEGT*IVRIV VIMLRLLSRKVRGIRLPAAVLI
17811	48179	A	17917	619	1167	

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17812	48180	A	17918	1	764	DSGQQLDDVQLARYLLSGQNQ PKSDRPYRVR*LTGAMLKILTL/ VIEGNVTLGHRVKIGTGCVIK NSGDWR*LRNQSVYRCGRCES GSGLYHVARLPVCVVLVSCWK VLTSSLVPPD
17813	48181	A	17919	3	1462	
17814	48182	A	17920	122	983	
17815	48183	B	17921	1	1287	
17816	48184	A	17922	289	958	
17817	48185	A	17923	1	5079	
17818	48186	A	17924	1	255	
17819	48187	A	17925	1892	2448	TESRCADGAGSVDVGTPEVVP RVELVAKWPGSRAGGTGLGCS PWVGAGCVGGLGPQARLSGPT ASTEASAKAASTLASLMWLRV RL*GACPFARTGATAPSSSKGP ELGVSGLRKATWMGRGSGCCT RGLGAGEWRAVPESCGLDESS EDSDDRDHAVPFSSSSCRRSML RPRRVARGLCRRRGV
17820	48188	B	17926	52	888	
17821	48189	A	17927	929	1148	TVWNGTCGLPFSSLMKCMVIM IMRAIQKKMMSKPDITITLVGW N*RRASVFSGQPRVEKVHSAEE NQVSRTSSS
17822	48190	A	17928	125	937	RISMVFPWCFCSCSRTLATTPAP TVRPPSRIAKRRPSSIAIGWIRVT TILMLSPGITISTPSGSSMVPVTS VVRK*NCGR*PLKNGV*RPPSS LDRMYTSDSNLHGLRPAVSPVT NTPA/SDGYYSHDGSLAQVDLS ANYHEGQYTSAGLSLQGGATL TTHGGALHRTQNMGGTRLLID ADGVADVPVEGNGAAVYTNM FGKAVVSDVNNYRNQAYIDL NKLPEAEATQSVVQATLTEG AIGYRKFAVISGQKAMAVVNF AEGKVS LAVV
17823	48191	A	17929	3992	4213	VPAIQQKFPRSWKLGGERPPKA FRLRLSAA*RKSVP*AQRSLAD/ SGMPLRLEKCLDTF*TQIV*SAF KIQREGS
17824	48192	A	17930	1	1636	
17825	48193	A	17931	1	900	
17826	48194	A	17932	1	939	
17827	48195	A	17933	427	1250	

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17828	48196	A	17934	521	805	LCPSNTSPLSCLLCDLVASTEM APMRVFQPAKVN**LFATIEP PYSVNKLLKPY**PAWTKSLCL LAPSIWLRPAAKSYFDTPGCSIF GTAA
17829	48197	A	17935	1	2052	
17830	48198	B	17936	1	573	
17831	48199	A	17937	1	1278	
17832	48200	A	17938	161	659	
17833	48201	A	17939	1	588	
17834	48202	A	17940	695	1281	KLKPYSWAFSRQSGRSVILTPPR VTVVVVAGFGPIPVFGTVMVRP GWAAP*FLPVASVYFP*AGLAG FLKKNRGCCANPAPPPIRRPIMY PP/MQRLQEPPADWWACAWFS GKD*\WKKSPPNCTRCA
17835	48203	A	17941	261	2045	
17836	48204	A	17942	1	637	
17837	48205	A	17943	31	280	
17838	48206	A	17944	1	582	
17839	48207	A	17945	1	2496	
17840	48208	A	17946	330	507	
17841	48209	A	17947	1087	1875	
17842	48210	A	17948	1	476	
17843	48211	A	17949	1	537	
17844	48212	A	17950	2	492	
17845	48213	A	17951	1	1101	
17846	48214	A	17952	2538	2833	TRRNWRPIQSSEESWRAAGSST PLTTQNRRQQTAGIY*RSR*TAA RR*SPALPRRNPRLATAG\WQY ATQTRQQRVLPQL*LSAPATRK NRLLANAWLTM
17847	48215	A	17953	125	1831	
17848	48216	A	17954	2	825	
17849	48217	A	17955	1	840	
17850	48218	A	17956	1	1725	
17851	48219	A	17957	463	1824	
17852	48220	A	17958	2	117	
17853	48221	A	17959	1	2640	
17854	48222	B	17960	223	1560	
17855	48223	A	17961	638	746	RIP*MT*WS*KPWHKNYMMHA QASVDNLIKWKKGYYQ
17856	48224	A	17962	385	514	
17857	48225	A	17963	17	225	SSPSKFTVAFFASLVMASAVSL ALSLRSLTTLIS/CGLVLQEERT DDALVEQFSPIRRARGHAPQQE ATEM

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17858	48226	A	17964	1	521	LVFLVLFVGFSLCFKSTYTLTY GDSPSLCDGLLII*IISRIDTNKPA DNSISGIRDVGWVAKSYQVA/V GERLHNRTPGTSHQSDTRFDF* LC*PGSACPNLVSEHERPQANM LVEASGRLLA*YQNALSCSFGY GVGLVRRQDFSSLGRFLQSAFA SNRY*QVVWVFEFQQVS
17859	48227	A	17965	267	554	LRFRFTRAVGRIFHRLDLLVLL GCNRYGRRGGDHGLCSVLVPR SLRLGRLPGGDSAAADAQSRH REKCR*DGVLVCDDQNRQTPV WKPHQEDVQV
17860	48228	A	17966	1	915	
17861	48229	A	17967	1226	1399	SDSNISICTCAQIH*KHFRII*NCT L*EVEP*RLS*M*LQRKCVQGEP SKVHSLWGI
17862	48230	A	17968	828	1070	SFFDYQTSALEHARR*LHCRT* NAGWLPHRTDRSSGYHGRCS AAGRCSSGDHSSYQQQNPAEK LPAGHPQRSGSPERTG
17863	48231	A	17969	45	1198	
17864	48232	A	17970	348	508	RLFRWCPM*S\WASYFPPESQL PDSYWLF*ECNLPTAYNSQNAIL RESHAIYS
17865	48233	A	17971	251	601	MAKKMSLSIAVFWRRLYAYY PHLR*KS*TNW/QWWSALS*A V*PNRS/IDSRWSIWSVLFGML V/AT/ALAPAFWLRY*KKSFS WNPTKSPRCLSNARPCCSLSKK ASLPWTIAARSR
17866	48234	A	17972	1	2121	
17867	48235	C	17973	1	1710	
17868	48236	A	17974	1	1335	
17869	48237	A	17975	1	1497	
17870	48238	A	17976	2	824	
17871	48239	A	17977	1	1965	
17872	48240	A	17978	1	3555	
17873	48241	B	17979	197	2021	
17874	48242	A	17980	1	348	
17875	48243	A	17981	1	891	
17876	48244	A	17982	1	679	

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17877	48245	A	17983	3	2502	EAIREVSNPI\PQEEIWTHREAVP PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVFG ERTMATLGRMSLLSPFDVVIW MTDGWPLYESRLKGLHAILV TFEEKFQEEPVKKQIIMVSISVS DTGGKKEKPKLINLSSKTNGLQ NTTEAQLCETKSDFELSFSGFNP ISIDTEDMKTGCCFQEQSVRRA YFKATSSPRRGLIITKLTTTRVDG YVADDPSTRYSGHGDLWPNA GNSCVETTSGSLLCEVQAAPT HTLEGKHGCRNKEKKRLTHSG ACTYTFSELGLELWAWNCGKT EVNLGAVGKGVGGDRGFKKI AKSQFTCSVLYTFTIKQGISLTL WSKVMHILEHLKENSQKLTSLC TRYQRFVGPWLHETIFCKVAL TATLLAELEKTSTLQTFDLKIWI LGAQQHTGSQEPSQALLTCDPA WKKALRKVTQKGGAFFGVDN LGSSLSPPTDLLYEEQRLTSLSG SWFPICVMVELTLRAGSSPGGR LYVEFDQAVTKEPRFLQYKHY WDGAVAGSSILRQDSFVAEAST TITRIESPSVPSRSSTFLDDFSITQ QHRRHAGLSVMLSLIISPPVRGL CQERTLRRDFRERLMYLDLEY QSGYCRLRTAGSEMQMVPDVL IFAHRSGLAGLFPGLDRRLVNA
17878	48246	A	17984	10	211	GSQSTIFTFAARWNLWANENT DTSISPLGVGEQRHCSSP*RFPD SDRCSPWSPRSQGNQSPQTW Q
17879	48247	A	17985	1	1725	
17880	48248	A	17986	1	379	
17881	48249	A	17987	3	273	
17882	48250	A	17988	3	1157	
17883	48251	A	17989	76	378	
17884	48252	A	17990	1527	2005	
17885	48253	A	17991	578	1312	
17886	48254	A	17992	1	1758	
17887	48255	A	17993	1	2433	

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17888	48256	A	17994	1	537	SQEELLQQALVAQLA/HSEQLE GVQLPEPDEPSARHALPANEPRI VLNNGVVSYNDRPILNNLSWQ HIGYVSSSLHLDYRVSTTVRNV ILSGYFDSIGIYQAVSDRQQKLV QQWLDILGIDKRTADAPFHSLS WGQQRLALIVRALVKHPTLLIL DEPLQGLDPLNRQLIRRFVDVLI
17889	48257	A	17995	1	536	
17890	48258	A	17996	1	1319	
17891	48259	C	17997	74	341	
17892	48260	A	17998	3	103	
17893	48261	A	17999	1	745	
17894	48262	A	18000	1	663	
17895	48263	A	18001	2	297	
17896	48264	A	18002	8	340	VPANLSAIALFRRESVTPLAAL AASPVCAGRFLVLLKNHRRDLP* ISVPVNSSSNSARSLVWHGRQ QIAPDWSSKDDFMRLGKPNRFS VLLLATWIR*STVIRRSPFTS

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17897	48265	A	18003	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCAIQ QIDVSFARDATSHSSCPVTGVR FWGYPPFAANKVVIAGFELEGET MTRPGLICAEGGLVMIVSLRS ELYDSYHEFTRQRVTEIVEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIPQLNGDQQLTLTVGE NGHYTLEGEEFTVNGMVGQRL EKDGVALTIADIKAKPGTQFVL SQRTELEAINALQETFTVSERSK ESGMLELTMTGDDPQLITRILN SIANNYLQQNIARQAAQDSQSL EFLQRQLP*TLSKNRPTPFSAA*/ DDMIPNSSPESAPIQLLQSRMI LGKTIAELNLRDIVEQKYFPI/D GSRLGEINQRKTR*AGDQLDAY STTEWSGSATDTQVGENGHYT LEGEEFTVNG/NGRPASGKRWR CADYRGH*GQDQQLTLTVGEN GHYTLEGEEFTVNGMVGQRL KDGVALTIADIKAKPGTQFVLS QRTELEAINALQETFTVSERSKE SGMLELTMTGDDPQLITRILNSI ANNYLQQNIARQAAQDSQSLE FLQRQLPEVRSELDQRKKNSTFI
17898	48266	A	18004	414	893	VFAQHGLTVAIAAHARDRWF VGRTAHANPPVRCSTDGSGRVP VTRYSGFVAAAVILLTASPRGG ECSREAPLCVSEYLLLSAGE YAPAPRCVLRVPSVDEDFVPV VPD*APPVEVALFLLRLTPVAR PADGGWLLAAIRPDALTSIAIV VLAAAR
17899	48267	A	18005	432	1108	
17900	48268	B	18006	1	753	
17901	48269	A	18007	46	282	
17902	48270	A	18008	1	1201	
17903	48271	A	18009	1	618	

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17904	48272	A	18010	1	1045	MLCTKWDKLGLEKNAGKNKN AYKWYGWPNAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVS HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNL _Y LH AYGTYGSANRVNFHDDMFLA GFGFQF*PAGGW/WGSNPFFAK\ RYTRSKPYT\GDNGYV\AGWV AGYNFMLGSEKFTLTN _W NEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYR _F KDESGKEQFSGAV VKTREATPGKEIEAITRMLDFS PRLKKLA
17905	48273	A	18011	228	430	YPRQHRQRADGSDRHR**/CWS A*IWANPTSNLPPCRFALT _K RK RPILCAPPSRQSYAAWCRWEIRI A
17906	48274	A	18012	296	1178	
17907	48275	A	18013	1	1395	MPSDISLASRLRATSRLFTDHR RQSDCMTAINRIPIVDDDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEDGKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYN _S RRAKGAFIKVNC AALRESLLESELFGEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSS _{EN} QRDIIDIPMA MSLLTAWSWPGNIRELSNVIER AVVMNSGPIIFSEDLP _P QIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTRTAL MLGISRRALMYKLQEY _G IDPAD
17908	48276	A	18014	1	771	
17909	48277	A	18015	1	2154	
17910	48278	A	18016	859	1014	IKTGETHPGIGPSVM*RH _S KAD LTHRHCGGIPEPQSVSFGSSQH GGGQFPPL

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17911	48279	A	18017	1224	1520	SPLVNQ*GA*KFFSRGNLFPQG ETH*KTKGVPCWTRYPDLKRS DSAEIFKTPANASGRTSGSLGC AAQLEKVADGRDLDEKLAEAG IGGSNKTSVWQG
17912	48280	B	18018	182	2392	
17913	48281	A	18019	72	266	
17914	48282	A	18020	600	914	PYRGSPRNHQLCDHCSHRLSE DPFVRYSNHCQSISNYRCDKPP VRPLSPLHQKTDRKHHQRPDRP FQWSAAPAHGRWRSGDS*ETP LHYAQPAGKLRWLWVNY
17915	48283	A	18021	1102	1171	LLGYGQQPPASNLLSEG*RSVV L*ISALRM*ALPPQKSSDAPNG WLPNRWPISSTMIR
17916	48284	A	18022	1	1279	
17917	48285	A	18023	1329	1403	
17918	48286	A	18024	442	918	
17919	48287	A	18025	3	1345	
17920	48288	B	18026	436	988	
17921	48289	A	18027	637	1086	
17922	48290	A	18028	1	321	
17923	48291	A	18029	1	845	
17924	48292	A	18030	298	581	GARAEARAGSGQGAGLGVSSP VRWRGWSDKGAERP GGPLSPL REVSRA G PSG/HAARGQQPGRP RFPPPGPRPPRRRCPCTRARPGG AAGGGPCL
17925	48293	C	18031	450	604	
17926	48294	A	18032	1279	2253	

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17927	48295	A	18033	1	1957	MAQFHVSHPPAEWPRHVLLLM ADSKNELQNMNTGQTCGTRQT LKSKLQGWNKPGIQSDPGSQG HPRCLKTFPLVAQSSTQERNHV MEKAVLKSQNWAIIEEFITKIG WFPDYSQKVKYLSSPKSSCTTV LQVTHFSLFFHPNPDELVSKIKV WSKHRLYQNNSEAFLEVQIPEP KCEVYSMRTMGRRQPGTAMD LNAGGSICNPRTLHLTGESTF RDRQRVGAYLDIRGWYILVLV VDKEKLGIPGQKQNSSKILFGSE KLKQWVYVKNHAKESITQEAM GIWVGQQRKRQPLGYEERKLT NRKDIHIKNPSVCHHHQRPKVD KTTKMGGKQSRKTGNSKNQST SPTLKESSSSPATEQSWTENDFD ELREEGFRRSDYSELQEEVQNN GKEVKNFGKKLDEWITRITNAK KSLKDLMEKTKARELCDERTS LSSQCNQLEERVSVMEDEMNEI KQEEKFREKRIKRNEQSLQEIW DYMKRPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLARQANI QIQEIQRTPQRYSLRRATPRHIIV RFTKVEMKEKMLRVAREKGRV THKGKPVRLTADLLAETLQAR RQDTHRLKIKIDGGRFTKQMEN RKRQGLQS*SIKQNLNQQRSK ETKKAIT*W*RDQFNKKS
17928	48296	A	18034	1	2838	
17929	48297	A	18035	1	897	
17930	48298	A	18036	26	308	
17931	48299	A	18037	749	1020	
17932	48300	A	18038	1	1773	
17933	48301	A	18039	1	1890	
17934	48302	A	18040	1	756	
17935	48303	A	18041	399	660	CPPEAVMPRRHEPVWEMTGFF LPDVLLSDSSDTSEGFRLHLET WAPFLCRCLSLRLIS*HHHQT GNSSPPVSASQHQSVDRDSL
17936	48304	A	18042	909	2005	
17937	48305	A	18043	1	490	
17938	48306	A	18044	104	775	
17939	48307	A	18045	170	451	
17940	48308	A	18046	1	207	

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17941	48309	A	18047	146	678	LGFLRLRLSEMPRKQGDYRTRIWK KFEDGLSNVLVIQLNKLIIICVM CLVRDCDVLKTYFHR*SGLLPI KDTS/RPFTRVTVQWGKKNDQ TFQGLLDTGSELTLPEDPKRHC GPPVKVGAYGGQVLHSDKWAPI YHFLSSHNCNGFCYISIANLPKK FGQNIKECLTNNRIVPFNCVQD
17942	48310	A	18048	270	1444	
17943	48311	A	18049	700	1062	
17944	48312	A	18050	3	1096	
17945	48313	A	18051	1	1500	
17946	48314	A	18052	1	6215	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTDDNPYTISVT NKTLSAIRIKMFMPRGVRIESN GDKNGVRVEYEVQQAQVGGSF ETVLTDVIEGKTMSGYDRSRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKA
17947	48315	A	18053	1325	1417	
17948	48316	A	18054	1	4971	
17949	48317	A	18055	251	1091	
17950	48318	A	18056	1	2277	
17951	48319	A	18057	2	448	KNDKGDIIVTTKSGGRGTSTVS FKLLKPEKI/GSKFSQKDLEMLF HGMRADFTSENFSAWYLIEN HSNTSFEQLKMAVTNLKRQAN KKSEGLAYVKGGLSTFFEAQD ALSAIHQKLEADGTEKVEGSMT QKLENVNLRASNTADTVYE
17952	48320	A	18058	124	984	

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17953	48321	A	18059	142	1393	DKKPGMVPPPPGEESQTVILPP GWQSYLSPQGRRYYVNTTTNE TTWERPSSSPGIPASPGSHRSSLP PTVNGYHASGTPAHPPETAHM SGRKSTG\DSQNLGSSSPSKKQS KENTITINCVTFFHPDTPMEQQL LKPTEWSYCDYFWADKKDPQG NGTVAGFELLQKQLKGKQMQ KEMSEFIRERIKIEEDYAKNLAK LSQNSLASQEEGSLGEAWAQV KKSLADEAEVHLKFSAKLHSEV EKPLMNFRENFKKDMKKCDHH IADLRKQLASRYASVEKARKAL TERQRDLEMKTQQLEIKLSNKT EEDIKKARRKSTQAGDDLRC VDLYNQAQSKWFEEMVTTTLE LERLEVERVEMIRQHLCQYTQL RHETDMFNQSTVEPVDQLLRK VDPKADRELWVREHKTGNIRP VDMEI
17954	48322	A	18060	1	435	
17955	48323	A	18061	3	926	
17956	48324	A	18062	3	693	RPPLAYLRDGDARAGLNLQL AVLAMLSRKMFCCKSGQSYS PSRVLITENDVKEGLQRSHILYD RAGEEHYNCSALHKSMRGSD QNASLYWLARMLEGGEDPLYV ARRLVRFA\SEDIGLADPSALTQ AVAAYQGCHFICMPECEELEA QCVVYFARAPKSIEVYSAYNN VKACLRNHQGGLPPVPLHLRN APTRLMKDLGYGKGYKYNPM YSEPVDOEYLPEELRGVD
17957	48325	B	18063	1	2020	
17958	48326	A	18064	19	404	
17959	48327	A	18065	1	407	FRATITSAKMGAYKYIQELWR KKQADVMRFLLRVRCWQYRQ LYALHRAPRPRTRADKARRLGY NDKQGYVIYRIRVRRGGRKRPD PKGATYGKPVHHGDNQLKIAR SLQSDAEPEAGRHCALREQSS Y*VGEHST
17960	48328	A	18066	53	431	AKKGAYNYIQELWRKKRADV MRFLLRVRCWQYRQLSALHRA PRPTRPDKARRLGYKAKQGYVI YKIRVRRGGRKRPVPKGATYG KPVHHGANQLKSAQSLQTGVQ ERPGHP*YAMRVLKAYRARP
17961	48329	A	18067	5	328	

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17962	48330	A	18068	93	836	AKMGAYKYIHELWRKKQSDV MRFLLRARCWQYPALHRAGTE WQLSALHRAPRTPRDPKARRL GYKQAKQGYVIYRIRVRRYI*D SCSPWWLKTAFQPKGCNFTGK PVHWSVFNQLKSFASKAFQFR WQEGGEAWDGTCCGGLLEEFNL FFNWVWV/GKIST*QNFFEGLIL I/VIPFHK*SEENPDTQWDQPN QSHKHR\EMRG\LTARPEKSRG L/GKKGHKFHHTIGG/SLRRAT WRRRNTLQAPPLPLI
17963	48331	A	18069	1495	2055	
17964	48332	B	18070	125	2530	
17965	48333	A	18071	345	800	RWRLQNLSCSSCSGSGSEGAT CFARGR*RPPGNSLNVSRMGTR SSYSCRRHSPAFLSWGKGRCHL CNKAHLLAGA*HYSFLSGSAPY *N*VNGQI**R*TAHRSTPDAPT GH*NCCS*L*CHSY*QRA*PGY RHD*CRMCC*CADCSHAC
17966	48334	A	18072	181	1687	
17967	48335	A	18074	205	1734	
17968	48336	A	18075	1	705	
17969	48337	A	18076	590	685	
17970	48338	B	18077	1	881	
17971	48339	A	18078	1043	1248	ITLGIMAIFTVLILPIHEHGMVFH LFVSSFISLSSGL*FSLKRSFTSL VSWIPKYFILFEAVVNGSSL
17972	48340	B	18079	1	1977	
17973	48341	A	18080	805	1153	AWKVLPPFVSFCFLSSGL*FSL KRSFTSLVSWIPRYFILFEAIVN GSSLMIWLSVCLLLVYKNACDF CTLILYPETLLKLLISLRRFELLF LSMFSASFRSSCKAGLVVAESL
17974	48342	A	18081	471	1442	IWSFHIVPYFLEALFV*GVRKGS SFSFLHMAGQFSQHLLSRESF PHCLFFSGLSKTR
17975	48343	A	18082	188	355	
17976	48344	B	18083	1	1677	
17977	48345	C	18084	35	1816	
17978	48346	A	18085	557	724	
17979	48347	A	18086	179	346	

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17980	48348	A	18087	135	1461	INRIYILLSTTSHLFQN*PHSWK* STPQQM*KNRNYNKLRLRPQC NQTRTQDEETHSKSLNYMETE QPAPE*LLGT*QNEGRNKDVL* NQREQRHNIPESLGH1*SNC*QD **RRKERRIK*MQ*KC*RCNKN AKGVITTDPTIEIQTIREYHKHL YANKLENLEDTDKFLDTYTLPR LNQEEVESLNRPTGSEIEAIINS LPTKKRPGPDGFTAIFYQRYKE EQRIKYLGIQLTRDVKDLFKEN YKPLLNEIKEDTNKWKNI PCSW IGRINIMKMAILPKVIYGFNAIPI KLPRFTFTELEKITLKFIRNQKR ARIAKTILSKKNIAGGIMLPDFK LYYKATVTKTAWYWFQNRDID QWNRTEASEITPHIYNHLIFDKP EKNKKWGKDSL FNKWCWENW LAICRKLKLD PFLIPYTKINSRW IKDLNVRPKTIKSLEENLGIPFR
17981	48349	B	18088	1	2016	
17982	48350	A	18089	659	826	
17983	48351	A	18090	3531	3878	
17984	48352	C	18091	1	2793	
17985	48353	A	18092	1607	1774	
17986	48354	B	18093	1	1666	
17987	48355	A	18094	1	1068	
17988	48356	B	18095	1	1549	
17989	48357	A	18096	557	623	KKWINYWTHTPSQD*TRKKLN P
17990	48358	B	18097	1	1231	
17991	48359	A	18098	263	1461	GGSSCYPSWEATIRTA KMVTLR K\RTLKVLTFVLFI L TSFFLN SHTM\ VATTWFPKQMVLESEN LKRLIKHRPCTCTHCIGQRKLS AWFDERFNQTMQPLLTAQNAL LEDDTYRWWLSLESVMFSVTM GFCLQRPFGDKQGTTPVYINQ TGRDLTQQQLRQREKKPNNLN DTIKELFRVVPGNVDPMLEKRS VGCRRCAVVGNSGNLRESFYG PEIDSHDFVLRMNKAPTAGFEA DVGTKTTHHLVYPESFRELGDN VSMILVPFKTIDLEWVVS AITG TISHTYIPVPAKIRVKQDKILYH PAFIKYVFDNWLQGHGRYPST GILSVIFSMHVCDEVDLYGFGA DSKGNWHHYWENNPSAGAFR KTGVHDADFESNV TATLASINK IRIFKGR
17992	48360	B	18099	1	4855	

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17993	48361	A	18100	571	4189	FSLKRSSTSLVSWIPRYFILFEAI VNGSSLMIWLSV*AKILVQRA* VLA FHPS*LR FVKDQVVVDMW HYF
17994	48362	A	18101	7449	7626	SFRSRLFSFHVVSELF*VSFLILSS SLIALWSERQSVIISVLLYFLRS AFLPTMWSILE
17995	48363	A	18102	63	329	SGQRRKEVPSPTLPAPPFILKKK E'WPDPPRSFFSGGHWAKSSCPS DCSSQLMAC*/CKNAKHQKDN SCLI/STHMKGN SERK*NSGYQ GLG
17996	48364	A	18103	2	618	GAF LLEVATAAGLSAGLTRLGS QVGGAMRRSKADVERYIASVQ GSTPSTLQKSMKGFYFAKLYYE AKEYDLAKKYICTYINVQERDP KAHRFLGLLYELEENTEKAVEC YRRSVELNPTQKDLVLKIAKLL CKNDVTDGRAKYWVERAAKL FPGSPA IYKLKN/DGWVRGQM VPKPDDEGVQVRGRSGRPDAG WRLNRRSSVGGSAW
17997	48365	A	18104	1	995	
17998	48366	A	18105	1	513	
17999	48367	A	18106	62	521	
18000	48368	A	18107	1	375	
18001	48369	A	18108	76	480	LVKVCHCTYHHFLTGVVSLPR DGGKGAPCWGRARSPKSALLP YLAPGRG*VGTYEVQN/PNGTS PVQSPATDVGRSPALGNQEP/G T*SPGPQIGRGVTGTARPHTGV SRDSWRRPPSFILNAVANIPKGN APIPKE
18002	48370	A	18109	445	1128	
18003	48371	A	18110	784	1189	IPLGKLLLKPVGAPQIERFPFQIP VPLCSLSFSPSHSPSSSSARS*VRQ ES*LGTPGSAPTGSP/TSHHPSAS SPPHPSAKAAFLSFVCFLCS*PPP SSCHPCGLGPGDPSPQKMMICT VAHLNQLSIFTVVKVHLL
18004	48372	A	18111	1	2088	
18005	48373	C	18112	169	213	
18006	48374	A	18113	1145	1229	
18007	48375	A	18114	1	975	
18008	48376	A	18115	1	750	
18009	48377	A	18116	288	368	
18010	48378	A	18117	34	168	
18011	48379	A	18118	479	1579	
18012	48380	A	18119	2279	2398	SDCSCPGL*GPPGRWHKRRKSG SPHLSTPEGTPALTSQA
18013	48381	A	18120	21	190	

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18014	48382	A	18121	1	1773	
18015	48383	A	18122	18	290	VAGTWPNFLKKVGIVGKYGTRYGASLRKMKVKKIEISQHAKYTC SFCGITKMKRRAVGIWHCGSC MKTVAGGAWTYK*V*FLVVFG SVWTT
18016	48384	C	18123	325	486	
18017	48385	A	18124	1	498	
18018	48386	A	18125	3	306	RQEIDSIHQVGVYCLALVPANT LPKTPLGGIHISQTKQLFLEGL HPCNILMCPHTCVTNLPKPRQK QP/WCRPCFRDGWESGCWKTY STSCWKGSGTNRRE
18019	48387	A	18126	1	1197	
18020	48388	A	18127	1	390	NSRVDDFVAPGLSEAGKLLGLE FPERQRLAAAVG/CSPMSGVIS MSAPFFLGKIIDAIYTNPTVDYS DNLTRLCLGLSGVFLCGAAAN AIRVYLMQTSRQRVVKRLRTSL FSSILGQEVAFSDKAGTGELI
18021	48389	A	18128	1	695	SGFMDHLEEKADLSELVEKEEL GFFQYYRERCHQKVYHPITKPG GSAKDAAPGGGHHQAGPGQG GDEGIRMMFCVSPNRATFVVS VVPLVSIIDVIYGRYLRLTKVT QDSLAAQTQLAEERIGNVK\TV RAFGKEMTEIEKYPSKVDHVM QKARKEAFARAEGVILNEKSFQ GALEFKNVHFAYPARPEVPIFQ DFSLSIPSGSVTALVGPSGSGKS TVLSLLLRLYDPAS
18022	48390	A	18129	1	2136	
18023	48391	A	18130	1	822	
18024	48392	A	18131	257	388	
18025	48393	A	18132	1	765	MVNAISLAARIHA EVPAD ESPE MTEGYEGFYHLASMKGTVERA DMHYIIRDFDRKQFEARKRKM MEIAKKVGKGLHPDCYIELVIE DSYYNMREKVVEHPHILDIAQQ AMRDCDIEPELKPIRG GTDGAQ LSFMGLPCPNLFTGGYNYHA/P SPKFSAVSAMLLASASSAGRCG ESIFSPLAYTSSPIESDSCGPAL* RFLRH*P/EIFLTQPVF/SENEAID IWN SPTASVSPLMP SRQNAVRE LFLLT VRRPTGTD

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18026	48394	A	18133	1	1166	LTHWVYHLYGIQRILIHIPSTSQ PNRVRGDIPPLQRIVVPVTIVQ PRLIMLLPWQTVRLVQVMRV LLIKLVAPFIILPAPRRIAVFADE RQRQAPVVAVVKMNFSSRRCVF RLHLSGQLLHRQPALRKPRPAF TAHAVCPDFFLQPVQQPHQFSR EHHAVAVLTPFLLERLCQAAPL RFFPLAVLCLDPDERREASRLV YRLDTCGVSLHRRQPVSVPAIS LALPMLAILVVQTIFMALYAIF VTWRMMGKNYDAAVLAAGH CGFGLGATPTAIANMQAITERF GPSHMAFLVVPVMGAFFIDIVN ALVIKLYLMLPIFAG*PMKRR* K/SPPQQRQMPDTRLRLSSVPSA SSVLSGLLPVVGNNVREYGVPGA ELPGSSPDRAVNPPPL
18027	48395	A	18134	48	314	LVPMTWVIEASYSIMRKKVGE HPHFLDIAHQAMRDCDIEPELN PIRGGTDGAQLSFMGLPCPNLF TGGYN\IMVSMSL*LWKVWKK RCR
18028	48396	B	18135	83	3044	
18029	48397	A	18136	1	1080	
18030	48398	A	18137	3	979	DAWADAWSKKADV KVENPD TKEKKPEAKK\VDAGGKVKKG NLKA\KKPKKGKPHCS\RNPCP CKKEIGRNSRSGMYSRK\AMYK RK\YSAASK\VEKKK\KEKVLA T\VTKPVG\GDKNRR*PGVVKL QKCPRYYP\SLEDVPRKACLSH GKKTPLVQHVEKNCEASIYPRG PF*FILTGRHRGK\RVGFPESSL AKLAYLLC*LGPLVLKSEVPL\R RTHQKFCHLPLSTKI\DISN\VKI PKHLTGCLLSRRKKLRK\PR\HQ EG\EIFDTEKEYE\TEQRKIDQ KAVDSQILPKIKAIPQLQGYLRS VFALTNGIYPHKLVLNCLKNP
18031	48399	A	18138	858	1418	
18032	48400	A	18139	97	516	
18033	48401	A	18140	1	219	

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18034	48402	A	18141	110	768	NLFSGCVESTFRKQPAHQRRSR ARAETMQRRLVQQWSVAVFLL SYAVPSCGRSVEGLSRR/LLKP MRPKNVHVPTKVTTYKRAVSE HQLLDKGGKSIQDLRRRFFLHH LIAEIHTAEIRATSEVSPNSKPSP NTKNHPVRFSGDDEGRYLTQE TNKVETYKEQPLKTPGKKKKKG KPGKRKEQEKKKRRTRSAWLD SGVTGSGLEGDHLSDTSTTSLE
18035	48403	A	18142	338	661	
18036	48404	A	18143	443	661	
18037	48405	A	18144	474	531	
18038	48406	A	18145	208	317	
18039	48407	A	18146	1	807	
18040	48408	A	18147	1	1122	
18041	48409	A	18148	283	2204	ASPMAPTSLCVPTLLPSLNQTSS SSTAPTGKASWGWPMRLRPLGL TTPWSLSLTLW*SRPTFTPSSPC SFVVLASPSTSLKCWPLSEGA
18042	48410	A	18149	208	1212	
18043	48411	A	18150	202	1677	
18044	48412	A	18151	1	3285	
18045	48413	A	18152	3	2206	
18046	48414	A	18153	1	1041	
18047	48415	A	18154	2	1460	
18048	48416	A	18155	1	792	
18049	48417	A	18156	51	362	AHGAAWPSHRKDRESADLGSD GQNGQDLWDGGGCRRC*RC DVLWCWAPHTFRHSYAMHML YAGIPLKVLQSLLLGQAPCRCG LGQNVGTALPLVSGGPMLFP
18050	48418	A	18157	609	690	
18051	48419	A	18158	1	2055	
18052	48420	A	18159	3	2236	
18053	48421	B	18160	406	454	
18054	48422	A	18161	1	2151	
18055	48423	B	18162	1	1215	
18056	48424	A	18163	1	594	
18057	48425	B	18164	1	1380	
18058	48426	A	18165	441	692	

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18059	48427	A	18166	2	1311	QHVRSTVTELWTGNFVNSIQTA FAAGIGWLITFCSKGGDCLTSQ TRLRLSGMLFLNSLDAKEIYLE VIHNLPDFELLSANTLEDRLAH HRWLLFFHFGKNENSNDPELK KLKTLLKNDHIQVDRFGCSSAP DICSNLYVFQPSLAVFKGQGTK EYEIHHGKKILYDILAFAKESVN SHVTTLGPQNFPANDKEPWLV DFFAPWCPPCRALLPELRRASN LLYGQLKFGTLDCTVHEGLCN MYNIQAYPTTVVFNQSNIEYE GHSAEQILEFIKDLMPSPGGS LTPTTFIELVTQRKHTEVRI/V*F HCPGWPPWPRLWPMACKPRNL LP*SSRPLNT*SSLFCSSNQPDLR GPLLHRPLSLPRRYRGAQVPNP DFGHYSVSPSLIHGLHQCSHLFS HSPPPRVLRPPRILTTSTGLPPSP RRSATDVHTAYPTAD
18060	48428	A	18167	1	924	
18061	48429	A	18168	10	1254	
18062	48430	A	18169	1	618	
18063	48431	A	18170	1	460	MAAPMTPAARPEDYEAALNAA LADVPELARLLEIDPYLKPYAV DFQRRMFWMFLPFFTLAFSPSV LVRFHAADKDIPETGQFTKGRG LLDLQFQVAEDASQSWQKLYL LPNCSGQPHQKLVPTAQKFYIT VEWGTFFSVPGQVVGSEGSQM SVTVEGSESEDDKMYMTCSS ALLDSFALC**RHT*DWAIFYKR KRFIGLTVP/MWLRMPRANHGRS CISCLIALANHTKNWFPQRRSFI SQWNGVLFSQLAKLWALKEV RCQ
18064	48432	A	18171	1	582	
18065	48433	A	18172	1	1578	
18066	48434	A	18173	1	1293	

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18067	48435	A	18174	344	1358	EAQSVTNHKRNSDCTFKEDNSL PVRKPSFLITNPGSNQGPFRFAGS PLGHEFTSLVLALLWTGGHPSK EAQSLLEQIRHIDGDFEFETYYS LSCHNCPDVVQALNLM SVLNP RIKHTAIDGGTFQNEITDRNVM GVPVAVFVNGKEFGQGRMTLTEI VAKIDTGAEKRAAEESARKGIR TGLMGERFGGQILDVDIENYIS VPKTEGQKLAGALKVHVDEYD VDVIDSTGTRSS/AISGFFHTYDS NSPTARCAPT*QNCAPSPSGEY APGEKAMRRITLVWRHCDY/PL CNAGNFVSMISRATSNTIATMII *GVCTDNTRLCLYALNCSGDIL SRTSCD
18068	48436	A	18175	1	1561	
18069	48437	A	18176	884	1171	PRRLNNEHDHKLMSWLHCLVP HHAKWLQRWQWQSAKV*FA *IRAVNFVTAYRAIIYQSRKQ HRYLRSACHGRSIIITVITQSPTK SSATKMPEN
18070	48438	A	18177	274	416	QADDDADNQSGDTDAAFGALI Y/CESDDL*LPALPLCVM WYQTM
18071	48439	C	18178	24	509	
18072	48440	A	18179	1	1932	
18073	48441	A	18180	1	2583	
18074	48442	A	18181	1	495	
18075	48443	A	18182	36	798	KQRHSCFWSCWFSRAG*LGEL V*NPEIA*RP RPQQQT VSGNG AWSGKAPRRRHSWHY/YTISFQ KLPLVECTNAGPIF*VAKAGRK CSIKPPLTSRSYITD*PVSLRSQ LTGR/AGNFVTGW/QLDEEIR YTMRTTVNAQTRDRRGVQPP TTWIFNDTKDQLERRIARLETG MAWAEPPSRTRHLISNCQISET DIPNVFAVRVNYLLYRAQKER DETFYVGTRFDKVRLEDDTG ASWNGNRTGSAGIISIT
18076	48444	A	18183	114	724	ARTRVPHPGHETAGGAAHP HLSLLGQDPGNQTQLPGGRGGI PGGRGGGRGGGGGGDDGRRR ALRRQQVPVLCVQRAGPAMDA AAPRHSSPDRERPKDQEVHLRL PGHASHSPHLGRHAGQPAGPA GLWQAPGLRHHLHAGIQPPE/V TNTTLTALT*TRRCPAFSSGTVK PLIFIWNLAAGPPLLRKGAASIW ICSCSIFQR

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18077	48445	A	18184	1	2130	
18078	48446	A	18185	2	433	EMTLDSRVAAAGDLFVAVVGH QADGRRYIPQAIQGVAAIIAE AKDEATDGEIREMHGVPVIYLS QLNERLSALAGRIFYHEPSDNLR LVGVGTGTNGKTTTTQLLAQWS QLL/GRNQRGNGHRW*RPAGES DPDRKYNRFGSRCSA
18079	48447	A	18186	114	586	SYITALGQFSRSG:QLLDRLGNF GTGWPNFDRKRFGSTMRTTVN GQTR/GPPQRRPAADNLD**H QRPAGAANRPSGNGHGLGRRRA AVTHPSLNQQLPDKRNRHPKRI CCAGKLSALSGTKRSAMKHS LERVSTKFAVWKMTTGACWN GISSWIKR
18080	48448	B	18187	1	3577	
18081	48449	A	18188	2	861	YHSINAASACSALHPVAFLTILT CRTCSSSLVATTSTMRLPNTLP DLIISPVESILSTSFCAPAFIRE PVTTSAPTIGVMANSVAVETAL PGLQEIPTRQPSWRAYSSPAIT YGVRLAAMP/SHHILCR*INIF QIINTAFPAIFRAHRLVNGIFSA SNQTNHQTRFHAVCGRTFGDV GWVAKSYQVAEERGSITEHQV QGHQSDDTEHFHGGEIERQQQ HYHRQRGDPVGEIGEPELSISR RHHVCHTGYNPAEPVSPAGEIS NGTANGNKLNMVCEIAP
18082	48450	A	18189	560	2021	
18083	48451	A	18190	525	804	GG*CRNWCDHYANGCRDTS LYDKLAELGPQGLSPR*NNWQ TARRNQSSGRNSCHLRREVE*R RLDKALRRIRQFSAPDEGAKCP WPGIIDCSNHFARLRCQYGRFL EVTSAGDEKPYPLYDHHVGLV VEQLRCIITAKVRTRHFYVVLK SIHPAVAGLPALRDCGELFNSV YCRKPATGPQLQADVMVVVAY GLILRKQCWRCRVLA VSTFMFT AATLARCCTNPTLTRAGDAET GVTIMQMDVEIPVVRCTTSWQ SLAHKAYHHVETTGRRHGETR VQDETLVTYAEKLSKEERVLTG HFRQHSLNAALRFQSMANELA
18084	48452	A	18191	1	266	SQYPLVAGHEVIGRVVALGSA AQDKGLQVGQRVGIGWTARSC G/QLRRLY*R*SDQLRARCGAD DYESRWLCREVACGLAMGDST ARKY

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18085	48453	A	18192	5	385	
18086	48454	A	18193	330	598	VMRFAIVVTGPAYGTQQASSAF QFAQALIADGHELSSVFFYREG VYNANQLTSPASDEFDLVRA/S ATTECATWCGAEYLRSGSITPW RC
18087	48455	A	18194	1	2652	
18088	48456	A	18195	1171	2091	
18089	48457	A	18196	486	837	
18090	48458	A	18197	1	2943	MAIYKQSQHMTDEVVRRCPHHE RCSDSDGLAPPQHLIRVEGNLR VEYLDDRNTRHRSVVVPYEPPE VGSDCTTIHYNYMCNSSCMGG MNRRLPILTIITLEDSSGNLLGRN SFEVRVCACPGRRDRTEENLR KKGEPHHELPPGSTKRALPNNT SSSPQPKKKPLDGEYFTLQIRGR ERFEMFRELNEALELKDAQAG KEPGGSRAHSSHLKSKKGQSRL GTRFLCQPAVTVIPVKIVRVTG DTVIRPHAEGAVRVQLRVGQA VTCRVCGIRDADIQIRCGGVNA GQPAGGAVAVTPGLARAADAD EFAVVVPGQPFHGGQAVRYTA VRQPLRVGRMSGLMLAKTCFR LQVMHRLTLTVFSQKVFTESIE VVEALKVNLMRVFLRRMDLRQ HRKMIMIDNYIAYTGSMNMVD PRYFLRDALPHCPNPLTGPTFA VLEKLGYPHTFVSTDFNTVALD VKTFGIKANDDKAKLKALGEIA HACVDATIHYCKSPTVAGLVAR ELIKLGHGTPTENPHVYWSPLE TVLACILARYRGHCSNTLATNS MLENCAFCAPSAPPSLKESTLSL NTVVIYDNRDGTNRSIDKFNRFIC HAFPKIIRNAIYEVEQHT*RACR YQ*DVGWFNIIYQPGISLAASKH CSTSSR*RWI*LDWI/CASASLL DEATAAAEAMAMAKRVSKLK NANRFFVASDVHPQTLDLMSY
18091	48459	A	18198	643	776	
18092	48460	A	18199	1	1257	
18093	48461	A	18200	3	346	
18094	48462	A	18201	1120	1335	
18095	48463	A	18202	312	1108	
18096	48464	A	18203	1	744	

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18097	48465	A	18204	381	1112	GVEPSPTNPPPTATAIPRATCVA AARAASPS*SHQPHPPPLAYD RCST*PTPTTTAGQDHDHGR WRSAPAPRSDHLSMDLQE/RSM SLLPLILSSTRSGSNPLRSTFLSR SRSISKNCSAEV*SNNSAGVGTI STS/RSTYDINRADTQVRRVN NYDIIVMSNSFNGQSEHQVWIG GQF/ILHQICPLTQFQYGAEPDR KE*CQAPASKWALLHK*HRPFP QDRKAGECLLHEYEDLYPSVIH
18098	48466	A	18205	2	307	HPARHKFVKGSSEHRKSPVKPP PIPSH*PP*PENTNPMRPLPTDP VTNLRSLMTGRQRFPTYNVNS RSDPSTTARSSSADRVNASEYP TSSEETSGRSSR
18099	48467	B	18206	1	723	
18100	48468	C	18207	127	1410	
18101	48469	A	18208	1	1773	MGKKQSRKTGNSKNQASPPP KERSSSPAMEQSWTDNDFDEL REEGFRRSNYSSY*EEIRT*WQ TSLKALKRN*MMM/ILLASPSR TPISGPNBDPAGPKFVAAAATT GKARQRFHPATTTTFHGRTPAPP LAHPAPTVPSTPASTQHPARRHQ VARPDRSSTPLPARIALRVFCPT PSTAPPEHPRQNPAPQTDASA LPGADDVRVSTTDPERRHPHPT NTTTPGPGRVLRKELNRPRRPI HHRRRRFHVQRAWQLPVPHRH HHLDHTSHTRRLRMTDVRLD RPQQRPPRITITTVGGDQRLRL DRSYQPESPCDGLRQLQ MAG RAPCSPLSMLVLEKCDNLKTCH TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAA YSLSRDQKR MLYLFVDQIRKSDGTLQEH DGI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKQNAKNEHGTSSSLPTQFK TDHMESQKDHPHKEETSPKVP HLVQESQKDHLHKEATNLKVP HPHPGKPGQPPPGEGNKPQRPP PPGRPGQPPPPGGNPQQPLPPPA GKPQGP PPPPGGRPHRPPQGGQ

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18102	48470	A	18209	944	1577	RLCCLEISSTGYPKSSISSSKYPQ IPRAGAQCSQAV*SGSNPLRSTF LSRSRSISKNCSEV*SNNSAGV GTISTS/GSTYDINRADTQVRR VNNYDIIVMCNSFNGQSEHQV WIGGGQF/ILHQICPLTQFQYGAE PDRKE*CGAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPHTHAYD
18103	48471	A	18210	3	634	DRVFDGSGSKWRSEQDWAAAK AVGQCSSENGDWRCNGRYP ARGPAVPA*PSLCLHHPR*RCT CCMPVYR
18104	48472	A	18211	3	255	
18105	48473	A	18212	101	547	TSVELMDLCPRLCRTFSGIPAY SMCIA*EWRNVCGVTGTENV PSAAAAATASPIQVLTVLSVTS QIRAFSVLPVRRRLRRMSLSRIN TCRTEYPRCAVVCLLWKDAVS CLSTTFCARLCGQNTWLPRPCR HVNRAASDASVSLSTVT
18106	48474	B	18213	1	1113	
18107	48475	B	18214	220	1173	
18108	48476	A	18215	1	509	MPNHKAILIKFKKTEIIPITLLDH STIKIEINIKKIAQNHTITWKLNN LLNLYFWPLTVSLCEMCKDFYS LGIEFSRFPLQELQNKDCALEK/ HSHWAQMWP*YPCPAKHWWS CRREHVLVVN/DCSTS*NSYWH FSD*LRAMKRRNEQCKR*AIRS LSRSLPARQDLKLLS
18109	48477	A	18216	3	281	
18110	48478	A	18217	878	1135	
18111	48479	C	18218	1	1602	
18112	48480	A	18219	33	608	VDSLRFQSPSCSVYSTDTR*ISE T**NKL*PPKPVIACPKMWIQV GQKFRQKAAATP*KAR*SPRPIP SH*QP*PKIQTRCGPQPPIRSPT QKPHDRQTALSHRTTTFHGPTP APPLAHPAPTSTPASTQHPAR RHQVARPDRSSTPLPARIALRVF CPTPSTAPPEHPRQNPNPAPQTD SALPGAVRG

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18113	48481	A	18220	3	893	NPRKRTEQGKAQNKVQWWLT RTPVMVQKRPTIVSLKSSPDSPL ETYSMFLFLGMWVGVGVE/C SVKLEEQVNTYHYQRILLGISS DNAILLEESEEGRPMHISTIKE PSPDSPILYLTNLKLLTSLILFH YGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEVYTKVFALDVAARHRVQF AMPESDAVAMLKQLS
18114	48482	A	18221	1	327	LISLRQRQRTPGKPGKGRPIP SPWPP*PENTNPMRPPSPTRSGH QPRSLMTGRQRFHTAQQRFTV RPQHHRSLIQRPCQRQRPNI QRGDIRSLVQIGHQRRCLRG
18115	48483	B	18222	1	1419	
18116	48484	A	18223	1	2784	
18117	48485	A	18224	936	1157	RTSTGLSGCIRCGVCASEGGQAV FV/WPRGPPETPCSRCPAAEGSP G*SPPREDPSSGSPGKRQTCTQT SARSPS
18118	48486	B	18225	67	1314	
18119	48487	A	18226	302	1423	CRWRFRFIMPFVMASMSAECL MNYNSTAMSGKTGLQNDTTLI ARPWVKPYLGLIEMRIVGN*PH LTWCFPCTMYIPLFSQLCCPV FGQCGAFRNPGHPPSPNPEFFLG PRRCNPSLGHKALVQEAASDTP GKS\PGKSPGPIPKPIGPP*PGK HKPDAAPSPHRSGSPNPEAS*PE DSFTPHNNVFTVRPQHHRSLI QRRPCQRQRPNIQRGDIRSLRF GCFARHHPRHHRNIHDRTRTRP RRLTRHSRGLFEDDVRVSTTDP ERRHPHTNTTTTPGPRVLRKE LNRPRRPIHLRRRRFHVQRAWQ LPVPHRHHLDHTSHTRRLR MTDVRLDRPQPQRPARITITAV GGDQRLRLDRITKPRARPN
18120	48488	A	18227	1731	2392	
18121	48489	B	18228	1	1422	
18122	48490	B	18229	298	1464	
18123	48491	B	18230	1	1800	

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18124	48492	A	18231	745	1250	HTQNQRSGRSQNDF*RRRKNIS ERSAVYR*RQLYIRRQPYAERP SLR*RQRP*IPCIRSQHGNRRKIP RRRIFI*QSVLRRRHELLP*RKPE ASAERHKTRC*VSERRPRYHRV KYDYH*KSIYSR*AHGAA*PSH RKDRESADLGSDGQNGQDLDC RGGCQPLLLTV
18125	48493	A	18232	1	1661	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFD DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS YAAKEVVLYRPEEDAGDEEGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQVRVGYTIEQINH MRDVFGTRLRRAEDVFPPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPDLHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGLPTDP HLMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADVLIPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEFDPVFIRDKLMERRNR RTGRTEKARIWEVTDRTVRTWI GEAVAAAAADGVTFSVPVTPH TFRHSYAMHMLYAGIPLKVLQ SLMG*YVHCKALWMDCAHV** TKEKIHSLHRRHPLQGDKPL PSPRNSSMPAVYPYWLPQRSIRI FQHI
18126	48494	A	18233	162	446	
18127	48495	B	18234	144	2537	
18128	48496	C	18235	1	873	
18129	48497	A	18236	700	1198	PFFGTDFFPWARWCIQLRHKFW SKGKQRTTKKAPVKPPGPSPAI DHP*PGKHKPDAAPSPHRSGHQ PKTSMTGRQRFHTAQQPFHGPT PAPPLAHPAPTVPSTASTQHPA RRHQVARPDRSSTPLPARIALR VFCPTPSTAPPEHPRQNPAPQ TDSALPGAVRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18130	48498	A	18237	363	940	LQTVLQGYNSNENSMFVKQKGS PPGKPGKKKPCFWGAPKNGAD IPSQSWRPSGNPGTTPPLPKPPSF FPGAPRMGQSQA WGHKGFWF KKGKPTPEPPGKKARVKKPPGG QSPKAIGPTRGPGKPPKPDMA PKPPTDSGHQTQKPS*PADSAFT PHINVSRS DPRTTARSSSADRVN ASEYPTSSEETSGRSSR
18131	48499	A	18238	861	1517	SLRPHLSGFYQARTL*DQRS*A DHE/DISKNCSEV*SNNSAGV GTISTS/RSTYDINRADTQVRA VNNYDIIVMSNSFNQSEHQV WIGGQF/ILHQICPLTQFQYGA PDRKE*CQAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPEQDEQKLRFCKRHL YGQ QPRSPVEIRLQHVAIAYQTHHA
18132	48500	B	18239	1014	2337	
18133	48501	A	18240	1495	1947	IVTLCFPSYCLHCEAGP/LPCGH PWLWLC*VLGSPG*TQRTGSW AMPGVQASKPACG*KVAPAAR RVPHPLHMLPHSGHSAASGGA SCPLCRG*ATGSDQVLKHA FRK GRSSNCASNGTPPNADFLGQD VHPARHKL RQKSASEPRKKAR
18134	48502	B	18241	1	2055	
18135	48503	A	18242	1	909	
18136	48504	B	18243	184	395	
18137	48505	A	18244	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFPSSVLNCSKCSWQLAAC MGFSF
18138	48506	A	18245	265	890	
18139	48507	B	18246	1	551	
18140	48508	A	18247	407	636	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRTVE*QRAS*KR */ERDYISIMPKPDGLTAAKNLA EAFEHYNECIRI
18141	48509	A	18248	1	1448	
18142	48510	A	18249	817	930	
18143	48511	B	18250	303	461	
18144	48512	A	18251	612	3359	
18145	48513	A	18252	1	462	

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18146	48514	A	18253	268	749	RGGIEYLLLVVFILTRTRFIQAV EHRRNGRRVAEKIVPELITHFM AEIRDLLQRTGVAL/W*HQSAA YLPG*QICALA**IHPGVAAGEY QRRSIQENGGKVQESGQTAS*M RG*MSVESRSGIAARCPESDAQ SGVVHRSRWNQSLPARFGAGR DYREAS
18147	48515	A	18254	1793	2193	TQRIPAAQKQGSRCIVDSSAEA LSAALAIGNIELVKPSRTMS/DK AAQEIVNSGKAKRVVSLGPQ GALGVDSENCIQVPPPVKSQS TVGAGDSMVGAMTLKLAENA SLEEMVRFVGAAGSAATLNQG TRLCSH
18148	48516	B	18255	1	1557	
18149	48517	A	18256	606	1123	QRDNPSGTDGGRNRAFGAGNI HTRGAAQAVERLVDSFPAQEK DPGESTGRTDSLPSRPQKVAY PVHRNDRR/ERLWFAAPSSPSN ATWGNAEWTLNFSSSDSVTGA SSER*NLLFRLATVRCTLPSSVS ADGAIVAALATHIGEAELTLES QCGAWRATFSSTCSSLPLNPN
18150	48518	A	18257	110	318	TALKLPLPMSTKVTRCLSNLLK PKFNLPLVQPPKKMLPRHLSR *APNTKTSRVLKKN*PIPIPTR KT
18151	48519	A	18258	2	3062	
18152	48520	A	18259	4435	4954	
18153	48521	A	18260	1	1959	
18154	48522	A	18261	2	715	
18155	48523	A	18262	1	756	MIRRVSVASGNEYPMRPASYIR TAPTVPSSSPAGTWFAGNAPA SSCGFRDRYLIVCSHQTPHVP KREEVNYETGIYWLRHYGYTD YSRNAKQRLQRNNLAPILFTTT VPLGGRQYNNNSQHLPQRQSLE RIRHHTQAFTALIPHGAAGQGC GSGDLHYLSLEDVAVSSKATPD GSGVTRKASANLRVTIQIGGFQ LRTC GFPGSCRGCHPALQISRAL AVAAHQQAADNNMEFANYGP FELLQARQLIES
18156	48524	A	18263	1	799	
18157	48525	A	18264	1	270	
18158	48526	A	18265	2	188	LGFFFQRPLGFGQELSKL*EQVL LAPEEVGHLGEHLLFRHASEWP APRVQLLLLVVRVQDLQE

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18159	48527	A	18266	2791	3274	SKIFPRHDDLLWRSHRNGDDL RTAGMNAFKQRLTLLGFKITIL TANDYLFADGQ/RSVRKKYPQ AQVSRVAGADLWEELMARAG KE/GTPVFLVGGEPEVLAQTEA KLVRSSSATSIAIWPLLIPCAISS WIRSTAFCCCSWVSEGKPADRS PAPSRTWLRC
18160	48528	A	18267	202	627	
18161	48529	A	18268	1	2390	
18162	48530	A	18269	1081	1911	
18163	48531	A	18270	86	272	
18164	48532	A	18271	674	2808	FILKLRTRRR*RHRLIRPWELFQ TARNAEVMKA/LVRHLWLEVK GVDLGRFPERRYGS DKPDLRNP MELTDVADLLKSVEFAVFAGP ANDPKGRVAALRVP GGASLTR KQIDEYGNFVKIYGAKGLAYIK VNERAKGLEGINSPVAKFLNAE IIEDILDR TAAQDGMIFFGADN KKIVADAMGALRLKVGKDLGL TDESKWAPLWVIDFPMFEDDG EGGLTAMHHPFTSPKDMTAAE LKAAPENAVATLGDPLESPDDG LHNRISTHGC FYVLCGISTNIGV ESTARNAWELGFNLVIAEDACS AASAEQHNN SINHIYPRIARRG RDPQVRMIYIGLPQWSHPKWV RLGITSLEEYARHFNCVEGNTT LYALPKPEVVLRWREQTDDF RFCFKFPATISHQAALRHCDL VTEFLTRMSPLAPRIGQYWLQL PATFGPRELPALWHFLDSLPG FNYGVEVRHPQFFAKGEEEQTL NRGLHQRGVNRVILD SHPVHA ARPHRKLGGTAVWEWEPEGA HWVGDEPGWFSSGDLSKA EY WAQKAADSGDADACALLAQIK ITNPVSLDYPQAKVLAEKAAQA GSKEGEVTLAHILVNTQAGKPD YPKAISLLENASEDLEND SAVD AQMLLGLIYANGVG IKA DDDK ATWYFKRSSAISRTGYSEYWA GMMFLNGEEGFIEKNKQKALH
18165	48533	A	18272	532	2103	
18166	48534	B	18273	1	4401	
18167	48535	A	18274	343	765	
18168	48536	A	18275	447	709	

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18169	48537	A	18276	1	1571	MIEVKHLKTLQALRNCGLAA AAATLHQTQSALSHQFSDLEQR LGFRLLFVRKSQPLRFTPQGEILL QLANQVLPQISQALQACNEPQQ TRLRIAIECHSCIQWLTPALENF HKNWPQYSVIFKSGVTFDPHFF FQQGELDPERAFDDFGIKPMAS ASIAQVHSARFNSNGHEVVIK IRAETLPVIKADLKLILRLARW DAAFAAGWSPPAANLSCAGST KIHRLMNRTCCRNLPFPFSGA KPGLYLVEAMVGGYRATTVV VSDTVALS KVSIGIELLVWGAG KKQGEANAGSEILWTDGLGVM TRGVTDDSGTLQLQHISPERSYI LGTLAMVQLREDMAKRQAAGI IAPRSGRRMHRTQHKPPMTTE MGPRAVLREDTIPFLEALKASG KQRILLTNAHPHNLAVKLEHTG LDAHLDLLLSTHTFGYPKEDQR LWHAVAEATGLKAERTLFIDDS EGDAMKEKPAVEVRLDKWLW AAR/SL*NPRAGP*ND*RR*GAL QRAAHEAEQNRRAECHAHSAP
18170	48538	A	18277	2080	2274	RFQVVYFDHEKPSLRHE*FALE EYTGTRN*GCVNLLDR*KPFPF KFMERWLAFFSPGLTLESSRG
18171	48539	B	18278	1	3126	
18172	48540	A	18279	1	341	MLDRLESEILADRVSEESRRWL ASCGLTVEQM QNMDPVYTPA RKIHL YHCDHRGLPLALISKEG TTEWCAEYD/GMGQPAE*REPA SAAAYPPAGAAV**GVRPVL QPPPLL
18173	48541	A	18280	945	1484	
18174	48542	A	18281	965	1403	
18175	48543	A	18282	703	1149	
18176	48544	A	18283	161	476	LLPWRSCILRS DPLAAHPVI/LV P*ACIFIARNCYPRPSCDSACKL RRESCG*FG*TRMVSAQATFSIQ ITSA/LPFCEHLPGKRSGDFDTG EDNALSGQRPEFRHG
18177	48545	A	18284	1	443	MLSEPALRELATAIAGVRKGEN DIAVENIIGANIFNIVIVLGLPALI TPGEIDPLAYSRDYSVMMLQAG KEVLAIERECLAELDQYINQNF TLACEKMFVCKGKVVMGMG KS/RAILGEKWPRNVCQHRIAN HENRDSIRKICCYHR
18178	48546	A	18285	3	550	

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18179	48547	A	18286	2157	2504	LVSLAGAAAYRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD** RVPRQNALLLPVCTSGPYHALA TGCGFRRGQMLKTTVLPRHYK LYLGASSGMRYSTPATALMPLP LPHLAER
18180	48548	A	18287	1	621	
18181	48549	A	18288	1	423	
18182	48550	B	18289	1	1551	
18183	48551	A	18290	1171	2757	
18184	48552	A	18291	347	690	
18185	48553	B	18292	1	528	
18186	48554	A	18293	1	1417	
18187	48555	A	18294	292	699	
18188	48556	A	18295	859	1377	
18189	48557	A	18296	1	3036	
18190	48558	A	18297	1	942	
18191	48559	A	18298	1	2124	
18192	48560	A	18299	1955	2797	GGISIDRSGDH*GRGAVYHVAG R*NAGRTAELYFASRPTCG/RW LVAAVQGAATARISTIEMSVW AQL*QMCGRGKIRAT/ISLPEATA QVISSGSGATKVEDGLGDLNKP VSNQNLVTGIDTPVYNAPSAGS APFGVLADNMRYPIHLKLKDR LNQTWYQIRIGDRLAYISALDA QPDNGLSVLTYHHILRDEENTR FRHTSTTTSVRAFNNQMAWLR DRGYATLSMVQLEGYVKNKIN LPARAVVITFDDGLKSVSRYAY PVLKQYGMKATAFIVTTRIKRV
18193	48561	A	18300	1	1191	
18194	48562	A	18301	1	298	MPVVFTVFFLWFPSGLVLYYIV SNLPRYAEYLTVKDADGSVLD QGIALWFP\GPNSFTGEDVLELQ GHGGPVILDLLLIRILTVCGLRI ARPACSPRSL
18195	48563	A	18302	1	1011	
18196	48564	A	18303	1	1845	
18197	48565	A	18304	1	755	MSPVIDKMYVDAYQPFSEEKIS MQEALEKGAQPLREFMLRQTR EADLGLFARLANTGPLQGPEAV PMRILLPAYVTSELKTAFIGFT IFIPFLIIDLVIAVLMLGMMM VPPATIALPFKLMLFVLVDGWQ LLVALVTGLIISILQAAATQINEM TSLFIPKIIAVFIAIIIAGPWMLNL LLDYVRTLFTNLPYIIIGRTMLQ VTSEQ/CAILVKPVLLAVTARA GADLHRADSERTQRTKTGGGF CRYWAG

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18198	48566	A	18305	1	1977	
18199	48567	A	18306	1	630	
18200	48568	A	18307	1715	1996	LFRLKLTLTGRRKRSNKS WITT CRGFWGTWCAGWSRP*VVQK CRIYTMWR*WQHAQR*VSPAT LNGLMLITISRKNPHTRKGAGK HCPFSGPS
18201	48569	A	18308	517	675	
18202	48570	A	18309	480	626	
18203	48571	A	18310	757	1146	
18204	48572	A	18311	318	724	
18205	48573	A	18312	1	1743	
18206	48574	A	18313	1	1197	
18207	48575	A	18314	161	613	LLRQGFIVISAGGKRVEGQIKLV FPAKFEAGFRHGVIANLRLYPF PEEKIGEMATAPLSTSGDCRT* YALIGIQ/PTDGDARGSPRYKPA LALLPACVGS AKSTPHGRTPIPA IYVPSSPT*FRALASDSVAQT*Y CRPASQTRRASPARSL
18208	48576	A	18315	177	425	SRYFSATSTWPLVMSIPVTC PFS PASWLST*QSLPLPLPRSKIQQF CRCSGITRPQP*YDPKSSSFVD AQGSPDHSNHLGLLLRVHFAR LPECAWGPALW
18209	48577	A	18316	1	576	ADSSKKIADIISVIDGIAFQTNIL ALNAAVEAARAGEQGRGFAVV AGEVRNLASRSAQA AKEIKALI EDSVSRVDTG SVLVESAGETM NNIVNAVTRVTDIMGEIASASD EQSRGIDQVALAVSEMDRVTQ QNASLVQESAAAAAALEEQAS RLTQAV\PRSVWQPAHSPINRK HHPVLP IATGALMPGCGS
18210	48578	A	18317	121	1819	
18211	48579	A	18318	1	2151	

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18212	48580	A	18319	3	1127	GTPYASQPVIRPVEGSKPLIKQV LDIGAHGTDKTIAQKLARVAR MHFARQRLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVRQ LAHDGHELVYVPCHRSMDYL LLSYVLYHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLIPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGQGYVNFGEPMMP LMTYLNQHVPDWRESIDPIEAV RPAWLTPTVNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNCYLDLMRNVP
18213	48581	A	18320	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPTSMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLGTINNKGAL PGDSTSGVLRTYERLLTAWML TCPCADEHQRGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQIIAHMALKPT SSIDVPGRITNRFGEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTIDIPRC AQSIGSFSGNCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQRLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTS AQLLRPQAL DLVSRDGKHVVSTLWKPEIFSL IKLAAQDKDVTRIFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLPDPLE PLEIDGTLLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMVPVSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFSPSVSLRRMADE HGTDKTIAQKL\ARVARM\HFA RQRLAAVGPRLPARQDLFNKL
18214	48582	B	18321	1	1460	
18215	48583	A	18322	2	234	

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18216	48584	A	18323	282	422	
18217	48585	A	18324	1	1974	
18218	48586	A	18325	154	1944	
18219	48587	A	18326	18	386	KACEAVF*DQGLPLGPKVQGG WDWFGPGALRHQQSVAHQ GGFRSLWGYSGVSGQCRRHSD *SRPGREARRRRSVAG**SHAL HRQTALFGARSDADLPAAAPR YLLYRGLSAAHFRPQAG
18220	48588	A	18327	181	655	KARSPEDQGFPRVRHIDGGVW HLDVGSSHPGAEVGPKGMAVR HLK WYASW*NVVRQFGPYLP WALEN/WRGAAPSTRGHGVC/G ITVFGKSDGTT/SHDQY*TAPYG SPHPPGRWSLRHRYPAHLTSSA LAFSDARRNAARQPRRWNP GYSQVICLP
18221	48589	A	18328	1	658	MDDGTSIAPDGDWLWAFIGDELK MGIPENDRIREQKQKYLNRNSY LHDVTLRAEPMYWIAGQVKK RNMPMELVLLPIVESAFDPHAT SGANAAGIWQIIPSTGRNYGLK QTRNYDARRDVVASTTAALNM MQRNLKMFDDGDLTVAAYN SGEGRVMKAIKTNKARGKSTD FWSLPLPQETKQYVPKMLALS DILKNSKRYGVRLPTTDESRL ARVHLISPVKCARFSRFVFCPA VCRDSSGADERRTDSGDCQYA GGVKPESVMGAEIVEGFHSISV TSAWSRGDNAPMAFSRLWL TVFSMVFKRRETVRSLSAVGA GELRGAAPSTRGPEWTHHWCS GCHANGTARSAVPPDPMPNS EVKRRSADGSVGSP*RLITAAK VGS*RQLKRTKRVGNPRTSGRY RCRRKRSSTCLKCWH*VIFSKT ASVMAYVCQRPMAVLWRVC
18222	48590	A	18329	642	1343	LCLHLPLPTRFRLQL*EEGGPV QPAAMPQWRTLPGPGPRPALPL PRRLRGSSLRARPGRLRGPRLR* RRHVCGGRRRAPLLLRAGLRRL RLPRARGPVRRAPLCSRRPLLR PLLRPRLRLRSRLHGSV*VPSA PRRRKRLARGPAGPQARGPSAL PFASGSGTARGRGRRCALA GPRAPPWPLPGCWVSLAGWDP GAVSPRTPGCTQQPKDAGGFR GWSEAGVHDAQTV
18223	48591	A	18330	1	810	

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18224	48592	A	18331	236	717	ALPVGAAFSSTTGFGSGFGAGG ASTFGLGGSTGFGFGGATGAGS GSNSVLLAAIVAGSSDGAASP ARTSSAAPSGGCD/QERRIVDFK RNKDGIPAVVERLEYDPNRSAN IALVLYKDGERRYILAPKGLKA GDQIQSGVDAAIKPGNTRLSYG QHREAWR
18225	48593	A	18332	49	291	
18226	48594	A	18333	75	839	
18227	48595	A	18334	1	579	
18228	48596	A	18335	223	563	
18229	48597	A	18336	1	1219	
18230	48598	A	18337	157	864	RGNRQLQQFPRHWSNRDGL LLQIQLQILGGHTVERHLVVQI ALVVNGHPGHADGMWILCIRV LLSLQQNGFRRVPSIGHWTGH* AATDQARLMLGGHINAQFAGI QRLEDLGTQLLHTTNGLVEVE ARRQILQLGLPLFLLNQTVDVW AIPGVHVLRFDVVGRDPS/EVLI DPRQNAGLLWKVFATFRPEPTR PAVCCPRGGQSGDDRRAGCAC NHVELVARHRRSCPWHSDRH
18231	48599	A	18338	1	219	
18232	48600	A	18339	1	2226	
18233	48601	A	18340	46	228	
18234	48602	A	18341	382	1431	
18235	48603	B	18342	1	2400	
18236	48604	B	18343	1	912	
18237	48605	A	18344	2267	2539	
18238	48606	B	18345	1797	3411	
18239	48607	A	18346	1842	2560	
18240	48608	A	18347	1	1284	
18241	48609	A	18348	1	792	
18242	48610	A	18349	1	978	
18243	48611	A	18350	757	1011	LFGRFSNGFLIVVCQRLRQAVV NEQFLPETATLTHRGELLFHSP A*LPGVFRYLAQM*RHAVIQVF RATGVPEPERCRQRRPHER
18244	48612	A	18351	148	679	RMSDDKFDIAIVVGAGVAGSVA ALVMARAGLDVLVIERGDSAG CKNMTGGRLYAHTLEAIPGFA VSAPVERKVTREKISFLTEESAV TLDFHREQPDVPQHASYTVLRN RLDPWLMEQAEQAGAQQFIPGV RVDALVREGNKVTGVQAGDDI LEANVVILADGVNSMLGRSLG MVPAS
18245	48613	A	18352	1168	2241	
18246	48614	A	18353	1	1344	

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18247	48615	A	18354	440	886	
18248	48616	A	18355	1	2876	MAGVPGFEPGNAGIKNRCLTA WRYPIRTTSLSGEWCGRRDLNSQ EATLQQPLLQAIDLKKHYVKK GMFAPERLVKALDGVSFNLER GKTLAVVGESGCGVLACTLFA WNRNYFVLLFVGVLSSFGSTA NPQMFALAREHADKTGREAV MFSSFLRAQVSLAWVIGPPLAY ALAMGFSFTVMYLSAAVAFIV CGVMVWFLPSMRKELPLATG TIEAPRRNRDRLLLFVICTLM WGSNSLYIINMPLFIINELH
18249	48617	A	18356	606	726	
18250	48618	A	18357	1271	1726	
18251	48619	B	18358	1	1633	
18252	48620	A	18359	1	407	
18253	48621	A	18360	427	2307	
18254	48622	A	18361	120	694	
18255	48623	A	18362	804	1087	KRQHLCTHSGAIRLRIAGVGSW KG/GRPNWRKMAVRWRVPASA VVSGWLRRWHCWVPVAMP SPRIRCGAGCCICRLPLFRCGCC TPARLTISH
18256	48624	A	18363	216	436	
18257	48625	A	18364	476	577	FRRWYWGCCSTTRLSHCLTR* M*CMRWSLAVCC
18258	48626	A	18365	1159	3744	
18259	48627	B	18366	169	743	
18260	48628	A	18367	2811	3513	SLPRGWFPQPEYGNLEIMEKTYN PQDIEQPLYEHLGFPRVGLRRE LKKAQESYWAGNSTREELLAV GRELRARHWDQKQAGIDLLP VGDFAWYDHLVLTSLLLGNVP ARHQNKDGSVDIDTLFRIGRGR APTGEPA AAAEMTKWFNTNYH YMPPEFVKGQKFKLWTQLLD EVDEALALGHKVKPVLAPGT WLWLKGKVKSEQFYRLSLLNDI LAGYQQGLAETGVGPDDIVTA

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18261	48629	A	18368	1	2810	MKQTVYIASPESQQIHVWNLN HEGALTLTQVVDVPGQVQPMV VSPDKRYLYVGVRPEFRVLAY RIAPDDGALTFAAESALPGSPT HISTDHQQGFVFGSYNAGNVS VTRLEDGLPVGVVHVVDGLDR LARQLIKNLATLKAGNARVVN SNAMSFLAQKGTPHNIVFVDPP FRRGLLEETINLLEDNGWLADE ALIYVESEVENGLPTVPANWSL HREKVAAFAGAEPYHYLNHTL GFPRVGLRRELKKAQDSYW
18262	48630	A	18369	2279	2563	MNFGASLNSPTPRSYLSLGGEK KAPVWEHTLGVPSRRPAAGKL KKAPERYWGGEHPPVKKWLG G*ARKCRPRPWETL*KSHLRRR PSLGPWAGGL
18263	48631	A	18370	481	1020	
18264	48632	A	18371	1	998	MNENFGTQICVNNRLSFTDCSG YVTRYDHDREFGQVTAHREEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNAAGDLTTVIAPDGS RNGTQYDAWGKAICTTQGGTL RSMEYDAAGRVIRLTSENGSHT TFRYDVLDRLIQETGFDGRTQR YHHDLTGKLIRSEDEGLVTHW HYDEADRLTHRTVNGETAERW QYDERGWLTDISHISERHRVTV HYGYDSKGRLASEHLT VHHPQ TNELLWQHETRLAYKRTGLAN RCIPDTCPPVNAYLGTAACQHE ICDTPWLSYRDPFTGKSWLSGR YELHKRIYGITAKERKDVDVW HPDVRFFELYDENNELRGSFYL DLYARENKRGGAWMDDCVGQ MRKADGSLQKPVAYLTCNFNR PVNGKPALFTHDEVITLFHEFG HGLHHMLTRIETAGVSGISGVP WDAVELPSQFMENWCWEPEA LAFISGHYETGEPLPKELLDKM LAAKNYQAALFILRQLEFGLFD FRLHAEFRPDQGAKILETLAEIK KLVA VVPSPSWGRFPHAFSHIF AGGYAAGYYSYLWADVLAAD AFSRFEEEGIFNRETGQSFLDNI LSRGGSEEPMDLFRFRGREPQ L*HTVVELPRPFHREILAFRPL*I TQAYLRHHR*RA*RC*CLASGC

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18265	48633	A	18372	409	533	TGNDAPVPAQSAQYRYLQ*SV RNFCRLSFRLGINLSLPYPHVDD VIPLMAEGKILPYLDIPLQHASP RILKLMKRP
18266	48634	A	18373	222	659	SAGSVKTQRSGANKQRRTRSRL ASFC/ETLSSVSFPAWRKISFLIP VGLPISNNYVCSLNPVWCAMR LNMPPMSKSICWQKHWKSTVS RWITTRHSFVQTLISTACWRRSP VTQSSWRSTFACSTGLLSHAPP LPIRHCTNITNVWY
18267	48635	B	18374	1	1527	
18268	48636	A	18375	1	1005	
18269	48637	A	18376	2	314	WVSYSYCSGSTTL/LLRALQECQR QQGPWASAGDPGEGAGERERL PQALASPPLQVKPARQ/RDPGL RTPDPGDTASPALNGHIFALPA GTAGDCFPFRPPRGRKNSGT
18270	48638	A	18377	3	576	
18271	48639	A	18378	189	563	QGRGSSRPGCGHLDPGGEWL PQRPLQLHLC/PSAYILIFAGVL VMVTGFLGFGAILWERKGCLS TTTGDRFWKDRQPWTCR/WQT SHRNQSGAGGQWDRFRSHQGH RDHEGRTSNWGSFGPREVA
18272	48640	A	18379	1	531	
18273	48641	A	18380	1385	1673	AASTDRAAETG**KTR/HRWFL SVKLRTSTPTAVSPKK*KRLAW TRCMTPPSKR*KKRVITPSSPT SLTSTLPGATVATSPVMPRVWN CSTAVCRS
18274	48642	A	18381	1	921	
18275	48643	A	18382	1	2115	
18276	48644	A	18383	2	149	ARRNESRRGGR*HPCRPT*GTG VNQRPAFRRFAGPFRYSGKPG RERL
18277	48645	A	18384	482	1655	
18278	48646	A	18385	1	776	MENACVLLMGVLSTFLVSWLG KDAMAGVGLADNFNMVIMAF FAAIDLGTTPGAFSLCKRDRR QARVATRQSLVIMTFLPVLLAP LIHHFGEQIIDFVAGDATTEVKA LALTYLELTVLSYPAAAITLIGS GALRGAGNTKIPLLINGQVAML MQAPYYFQEAQIEAAIAAMDV APEYADIRQVESSTAVLYLFSE RFMTYGKAYGLCEWFEGRSLSI AHIPVTDNDNETQYHFFRQSCQ HC/DRCSVHRRLLPDGGVVA

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18279	48647	A	18386	1017	9228	FGRCAGVCQ*RGRDGGRRDEA GDGRLRLARL*\ALYQTITHDLR YRHKNLRYRRKLASQRVTEHVN RAGLRYSYQYEKDCITITDSLA HNKVLHTQGEAGLKRNVKKK HADGSVTQSQFDAVGRRLRAQT DAAGRTTEYSPDVVTGLITRITT PDGRASAFYYNHHNQLTSATG PDGLELRREYDELGRLIQETAP DGDITRYRYDNPHSDLPCATED ATGSRKTMWTSRYGQLLSFTD CSGYVTRYDHDRFGQMTAV
18280	48648	B	18387	1	1431	
18281	48649	A	18388	575	835	RQKPERYLTAFIGSTTLPLRWMT LVRVMRPVTCRRSRILLSIS HLCKWRVSTKSPVILWTILSN* RLFWKSWR*NGLQSKYQDG
18282	48650	A	18389	1207	2465	ASTAQHQHLLSPAKEETTGWRI FHPSDPWALGRSQGGAGLIQPP EVQKGSVRYRARFALLGPAMV AHRHTGRPEIRYRYDSGGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKRNVK KEH\ADGSVTQSQFDAVGRRLRA QTDAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGPDGLELRREYDELGRLIQET APDGDITRYRYDNPHSDLPCA TEDATGSRKTMWTSRYGQLLS FTDCSGYVTRYDHDRFGQMTA VHREGLSQYRAYDSRGQLIGV KDTQGHETRFEYNIAGDLGGI APEGG/RNG/TQYDAWGRRRTT /QGGDADDRSAGGTRARKGHT SFRSVGDRTVSRHGYPGRNLR RMVRSSVPLYRLTASIAPVPQE YRFPHQSEEVY
18283	48651	B	18390	1	2604	
18284	48652	A	18391	1	2640	
18285	48653	A	18392	1	549	
18286	48654	A	18393	290	389	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSV
18287	48655	A	18394	1095	1268	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSVAENARSACRC RRSAHAGRFLQTAS
18288	48656	A	18395	1056	2178	
18289	48657	A	18396	1	669	
18290	48658	A	18397	1628	1856	
18291	48659	A	18398	227	668	
18292	48660	A	18399	1	3186	
18293	48661	A	18400	291	631	

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18294	48662	A	18401	1	1437	
18295	48663	A	18402	345	727	
18296	48664	A	18403	870	1043	
18297	48665	A	18404	1	2175	
18298	48666	A	18405	1	1332	
18299	48667	A	18406	1	1566	
18300	48668	B	18407	1	921	
18301	48669	B	18408	1	2487	
18302	48670	B	18409	1	2919	
18303	48671	B	18410	1	2214	
18304	48672	A	18411	1714	1979	RLAWRLAGRWWAGSWRTSTIP PAAACSLRRCSPPSKFCSAWCR WCSTRACSSCCRSTSSPMPAWR PSAGS*LSTARRRAPPALVLR
18305	48673	A	18412	1201	2118	PSRQADKENRPHPGRGYPARM MSGTGTITTSTGWCTTRGHN MKSRSKVAIFTTRWGRRVAK RVWRRERDLTGWMSLSRKPQV TWYGDGDRLLTIQNDRTRIQ TIYQPGSFTPLIRIPVLGGDDT MDCLRTSIRLNAASVTCAYRRD QISMPGSRKEVVNAREEGVEFQ FNFQPQYIACDEDDGRLTAVGLI RTAMGEPGPDGRRRPPPVAGSE FELPADVLIMAFGFQAHAMPW LQGSGIKLDKWGLIQTDVGY LPTQTHLKKVFAGGDAVHGAD LVVTAMAAGRQAARDMLTLF DTK*PGTAGTATG*PQYRTTEP ASRRFISRGASRHSSEGS/SVLG GGDDT/MGLFADFHPQCRQRD LAPYRRDQISMPGSRKEVVNAR EEGVEFQFNFQPQYIACDEDDGR LTAVGLIRTAMGEPGPDGRRRP PPVAGSEFELPADVLIMAFGFQ AHAMPWLQGSGIKLDKWGLIQ TGDVGYLPTQTHLKKVFAGGD AVHGADLVVTAMAAGRQAARD DMLTLFDTKAS
18306	48674	B	18413	1615	1656	
18307	48675	A	18414	1287	5056	
18308	48676	A	18415	1	271	
18309	48677	A	18416	1	588	
18310	48678	A	18417	2150	2332	
18311	48679	A	18418	1	238	LEELGVIGAVLVGFSL*VLWAP LQLPKAGGRVKVAGIQLGEVEF WKVSKSCSSPDPPPGVMAAKIS ISQALQPPQSTR
18312	48680	B	18419	1	2721	

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18313	48681	A	18420	712	1031	PVMRQRGVFRSVILIKIRSARCC QMIQPRVISHAMYSLSPPFALR RSTKSPKRFSMNNS*ASRSSGST SRDTSAIS*ARRSISSRTSRLLI LISLISSLLVNVV
18314	48682	A	18421	1	1779	
18315	48683	A	18422	693	921	
18316	48684	A	18423	758	1183	ALTAASRSECAVIMMTGRTSCC DIVEKWIPARCCQMIQPRVISH AMYSLSPPFALRRSTKSPKRFS MNNS*ASRSSGSTSRDTSAIS*A RRSISSRTSRLLIQWRSWLWYTI NSIPPTNRAKSMKPEPSPNACSK VKRCC
18317	48685	B	18424	1	708	
18318	48686	A	18425	1	2436	
18319	48687	A	18426	1382	1813	
18320	48688	A	18427	900	1028	AGYAAPGRTDRRSSPSG*GYRY SGCYQICRQPGRGLGSRKSPV
18321	48689	A	18428	1	881	MTPSRFAKKNGSLVKRCPMGI DAEVTMIKPIAARPKVSHSKVR SYMIRLSVSFSREPITQPFSAVEI QTRIRYGVSGFFLRRVDTEHHP DRHAARALQYHITGSNRCDAIN AVQFDTAGGECTNRRMAEDHG RNVAVIQMLIRLVIKQAFREVP SELWTNRKQACPFLDFDCGENS AIAANNYDWFGNMNVLTFRLD IGKHFSVNQMINKEAVKQRLN REDQGISFTEFSYNLLQGYDFA CLNKQYGVVLQIGGSDQWGN TSGIDL/NPSSASESGVWPDRSA DH*SRWHQIW
18322	48690	A	18429	1	3270	
18323	48691	A	18430	1	374	MKTCWQILEIESTTQIDIIRQAY LARLPLCHPETDPQGFKALRQA YEEALRLAVNPVEEADDEEKD AAAEHEILRAFRT/FTGFRK*SFS AFRLAEIYSAIKYLEHGGCRSIT LAAVCNRHRSAT

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18324	48692	A	18431	63	1272	LRRSCNAVYCW*CVATCPS\GE EDGIVLIDQDKCRGWRCITGC PYKKIYFNWKSSEKCFYCYP RIEAGQPTVCSETCVGRIRYLG VLLYDADAIERAASTENEKDLY QRQLDVFLDPNDPKVIEQAID GIPLSVIEAAQQSPVYKMAME WKLALPLHPEYRTLPMVWYVP PLSPIQSAADAGELGSGILPDV ESLRIPVQYLANLLTAGDTKPV LRALKRMLAMRHYQRAETVD GKVDTRALEEVLTEAQAQEM YRYLAIANYEDRFVVPSSHREL AREAFPEKNGCGFTFGDGCHGS DTKFNLFSRRIDAIDHQQEMF EAIAASKNLPKEDAHALGIFLR DLTTMDPLDAQAYSELFDRG RATSLLLFEHVHGESRDRGQA MVDLLAQYEQHGLQ
18325	48693	A	18432	2	859	WPLRRSPYSIINGSGKSAASGSV MQVAQFNHYQYDPKFERGM YLYEHRRCFNNIIDYCNLCYH AWLVAHKDDIERNYRGPLVQV VGWCDAIFGAEELGISRAQFDQ FLRMMQGGGAQFGGGYQQQTG GGGRPGGHFFEKRRLLRMVDR LNARFTGGVLVSFKGPLLEGFG PWQGLSPWVIGPDLGLPG/CLG AWGAVSVCHCPWVCKTGSPFR WVPHRRFHPPPG*KFPENWMG FCSSRTCGLFSHPHSPTMAFKN FELGHGTTPRGTRNRPTMSSNT YRPHRFQ
18326	48694	A	18433	479	601	CWRPLPAEKRWYLAANWW RLAARFVFPMCLVRQ*PSSMIW TTPDADIAIGTWRSCCAVLRGR KMPVSSITMRRRCY*CWRPLPA EKRWYLAANWWRLAARFVF PMLCVRQAAPYTK
18327	48695	A	18434	69	194	ATYENMLANPRN*KHDANRHY PPGLSCSLTVSSRNRSARV
18328	48696	A	18435	173	298	ATYENMLANPRN*KHDANRHY PPGLSCSLTVSSRNRSARV
18329	48697	A	18436	1	1734	

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18330	48698	A	18437	851	2202	RQKRLIFCCVKGKNWPP*WRW LNEKLPCSLMLLPTLPPSVLGIR LQNQLQRQFVRQGGVWMPGD EVKKVTCKNGVVNEIWTRNHA DIPLRPRFAVLASGSFFSGGLVA ERNGIREPILGLDVLQTATRGE WYKGDFFAPQPWQQFGVTTDE TYARHRQGKPLKTCLPSVRCW ADLIPSPRDAAAVFVPSVLYMP LNRLPNAQEANNE
18331	48699	B	18438	1	5301	
18332	48700	A	18439	710	889	
18333	48701	A	18440	1622	2615	
18334	48702	A	18441	1	1309	
18335	48703	A	18442	1	266	PRQCGFMKKRLENGDDYFAVN PRGRCLHCCWMTVLC*RKRS YAVSCRQRPRPPVLAPVNSISRS VSPYTP EYKPTVRAQLEKNCN M
18336	48704	A	18443	267	395	
18337	48705	A	18444	1	3807	
18338	48706	A	18445	1	2193	
18339	48707	A	18446	1278	1846	SCRSAPNRNHQIPGTYSRLPRH TTPPGYDHNKRNPNLYISTRQK RDAFFAVQYHSLLYRQTLLPN DHNQSVDR*FVRL*NQNGYNS GRHLYWRYHSYNAL*LC HPVYYRLYYIFLQPVQMMPQ CPSPLMPECSFSFSLILINA/SNI QRESPVENRKVFNLRLLLKIYYR LIIFLKCGNLLNL
18340	48708	A	18447	1	2106	
18341	48709	A	18448	881	1401	
18342	48710	A	18449	1	233	MMGFDGTVQYMASLGAPMPM LAA/MYCGSYGSARRDINRAW LFHPSAGGAVYFLHAGYGGDW SPLLGYDRRCGWAKYD
18343	48711	A	18450	1	1960	
18344	48712	A	18451	563	928	FSAIKSSPKAQUALWHVLHY*AV N*TNIFKTEKPIFNRGKRFRPTP TRQLRECWIVWGSASCQLTKQ AVVARWTIILMRRRKGWHG IILMPGGPRLKQVPRQFCKPPA AAARLSKSMGRC
18345	48713	A	18452	1	828	

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18346	48714	A	18453	1	1327	MMQKPATVDEEESPRETHRYS VRRRGELIVEAGGRAENTVVT GAGWLKVATGGIAKCTQYGN NGTLSVSDGAIATDIVQSEGGA SLSTLATVNGRHPEGEFSVDKG YACGLLLENGGNLRVLEGHRA EKIILDQEGGLLVNGTTSVAVV DEGGELLVYPGGEASNCEINQG GVFMLAGKASDTLLAGGTMN NLGGEDSDTIVENGSIYRLGTD GLQLYSSGKTQNLSVNVGGRA EVHAGEVTGDIHVEITDASRQT LCNALKLQPDGEGSSRVIPTCK ASRLRIDANFKRFVDEEVLPGT GLDAAAFWRNFDEIVHDLAPE NRQLLAERDRIQAALDEWHRS NPGPVKDKAAYKSFLRELGYL VPQPERVTVETTGIDSEITSQAG PQLVVPAMNARYALNAANAR WGSLYDALYGSDIIPQEGAMV SGYDPQREAMECP
18347	48715	B	18454	71	4995	
18348	48716	A	18455	1	3572	MARKRKSRRNSKIGHGAISRIG RPNNPFEPNRYAQLTLAL MGGAFFVLKGCSDSSDVND GDGTFYATVQDCIDDGNNADI CARGWNNAKTAFYADVPMNM TQQNCQSKYENCYDDNVEQS WIPVVSGFLLSRVIRKDRDEPFV YNSGGSSFASRPVWPSSIVIMS YGLASYVIAVAFLERDRIQAAL DEWHRSNPGPVKDKAAYKSFL RELGYLVPQPERVTVETTGIDS EITSQAGPQLVVPAMNAR
18349	48717	A	18456	485	1999	
18350	48718	A	18457	44	270	
18351	48719	A	18458	1	2223	
18352	48720	A	18459	290	756	
18353	48721	A	18460	8	314	
18354	48722	A	18461	2	686	
18355	48723	A	18462	1	732	
18356	48724	A	18463	1	780	
18357	48725	A	18464	101	435	
18358	48726	A	18465	805	993	
18359	48727	A	18466	452	2180	
18360	48728	A	18467	691	1443	
18361	48729	A	18468	1	320	DPRDCRLKVGKEMFTLFGPQF VRELQQRGFDIFLDLKFHDIPNT AAHAAAAADLGVMVNVH ASGGARMMTAAREALVPFRPD APLLIAPV*RSIKASDLVVL

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18362	48730	A	18469	632	796	
18363	48731	A	18470	129	425	TDIITRQNGTGANIDAIETATKA STGLFVYQPRFARCPVMSSGY HTATRGSSGTRTVRARVCHTA AGVYGSSKQTQF*NRFCQRKCR RYPDGCRRRA
18364	48732	A	18471	1	1062	
18365	48733	A	18472	1	996	
18366	48734	A	18473	1	1004	MLRVYHSNRLDVLEALMEFIV ERERLDDPFEPMILVQSTGMA QWLQMTLSQKFGIAANIDFPLP ASFIWDMFVRVLPEIPKESAFN KQSMWSKMLTLLPQLLEREDF TLRHYLTDDSDKRKLFQLSSK AADLFDHVS GASVSSKVEQLR AQLNERILVLDGGMGTMIQSY RLNEADFRGERFADWPCDLKG NNDLLVLSKPEVIAAIHNAYFE AGADIETNTFNSTTIAMADYQ MESLSAEINFAAAKLARACADE WTARTPEKPRY\ VAGVLGPTNR TASISPDVNDPAFRNITFDGLVA AYRESTKALVAGIVLMPAIPAL WEAEPGGCA
18367	48735	A	18474	606	846	
18368	48736	A	18475	3042	3933	GPHPPAPGGPA\CHYDVHQPYL RQRTEDRRTRHYLAQSFAQYSL RQWAFHFLLDNITPDIIQIVIAH TRRTGGFTITASEAAIEMLLCFK RDFVALQHFLFNQIDAPARAVQF IAQKLIGWACCEAARKNQLPH NTTKRSLMSILYEERLDGALP DVDRTSVLMALREHVPGLEILP TDEEIIPIYQCDGLSAYRTRPLL VLPKQMEQVTAILAVCHRLRV PVMVFPGLRLSREAFLLTAIEFG TQELRRPAQLRLQVYRLLSTAG RHHPAQNSPIRVLEVVDIDLLGG TQELWGWKETH
18369	48737	A	18476	869	1639	ICSRCKSTRTSPTRCRKAIVIL VCFVIRELLVVAPELTHGLPEG NWITVSKGMLAKSPVDSNSTQ LKEAEEERLKAQYGLQLVES QNELQNQLDKCRNEMMTMT MQLRNKKRRRELGNLIKFRFRSG AESLPDAVVL TTEGGIFWCNG LAQQILGLRWPEDNGQNILNLL RYP/EVYAISENA*FFSPAQSGA QHRAASGNSRHALYPQTVADG GA*CHANASTGRGAA*LFCQRE P*VTYAIDRVTLPGDDE

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18370	48738	A	18477	388	2356	
18371	48739	A	18478	137	318	GGQLSSWAMDFCHL/PAFWNS MTWHLQRLWGACGYFWHAQ WERLLTTFEGNEWILIFIGGIL
18372	48740	A	18479	923	1149	
18373	48741	A	18480	1	373	
18374	48742	A	18481	168	360	
18375	48743	A	18482	1	147	
18376	48744	A	18483	161	440	
18377	48745	A	18484	277	2172	
18378	48746	A	18485	164	406	LFRREGSYDRYLLMDDYCRRK DDSYFDRYRDSFDGRGPPGPES QSRKAGKVAETVYSYY**NTL QKREETNNQYPHLKKG
18379	48747	A	18486	405	999	
18380	48748	A	18487	64	288	
18381	48749	A	18488	159	550	CAVCHISFQDTPVLVSSNVMTQ FGSKPLFENISVKFGGNGRYGL IGANGSGKSTFMKILGGDLEPT LGNGSLDPNERIGKLRQ\DQFAF EEFTVLDTVIMGHKELWEVKQ ERDRIYALPEMSEEDGYKVAD
18382	48750	A	18489	3	481	
18383	48751	A	18490	2	233	
18384	48752	A	18491	2	3026	SVPTIIFFFLPVLRFWRPGIQQA KKCHLFATGTQSRNTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRFARFRRT WRLLGHCVSAAVTGVLPVAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELP AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTEDNG EVWQWVDDALTFELPEIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGFI
18385	48753	A	18492	2714	3079	RLIGLRMVREFVGLIRRASVAS GSWHCCRMRRKRLIRPKPSILQ SMLWSPSTRRMFFTLVPIFSIEE LPFTFRSLMMVTLSPSASRLPLA SLTISSSLSCAGSASFHS*AHSG QMYMPLSS
18386	48754	A	18493	1	888	
18387	48755	A	18494	1778	2025	
18388	48756	A	18495	1	1425	
18389	48757	A	18496	3	96	FVGRIRRLRRIRRY*FTPLTD*LS CAHQVP
18390	48758	A	18497	420	955	

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18391	48759	A	18498	533	1006	RPSIFACVSP*RINHSRIMPQTN AKNAKPNAQVMRGVISRRRR AMLFNSNAITRTPTTSFTMAITS ASSPPAVKVSICPHGINTPTNIC NTTSCFRLIPHFMTPKPLPLYSE SGPSCSSCSASARSNGSLPISIKV ANAQAQSASTSGMLWLSGQ
18392	48760	A	18499	3	418	EWHYLSADRRQCAFQGVSRKT ATVCHHPVDYYAGSLYRLYFT DRLRLARLAGHAAES/GTPASHA VFQLVLE*L*SPLFSPVSTSGGR TANSTVLIMKSCMSGAVERQPT NWQAILMFLIFVVFTLGITYWA SNAYVLAG
18393	48761	C	18500	63	500	
18394	48762	A	18501	1	1107	
18395	48763	A	18502	1	153	
18396	48764	A	18503	88	510	
18397	48765	A	18504	204	654	
18398	48766	A	18505	241	771	
18399	48767	A	18506	1655	1909	
18400	48768	A	18507	2	48	
18401	48769	A	18508	1	585	
18402	48770	A	18509	1	723	LQPPGRRWAAPAVISGLSRQV\ RCFSTSVVRPFA\KLVGPSVQV SVIEGRYATAL\YYAASRQNKL EQVEKG\LLRVAQILEGTPKWA ASVLESPMLKAFPLKVKKPKM TITAKVGGSLPLTYQTLINEFALL ENGSD*GNYPRESFSGFLTMD GVFHSRERVP\CTV\TSGIFL*EG RPQFSEFKNCSSRGFLRSRAKFL KLGAK\TDPSILGGMIVRIGEAK YVDMSVKTK\IQKLG\RAMREI
18403	48771	A	18510	400	894	
18404	48772	A	18511	1	1023	
18405	48773	A	18512	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTIAEPDPG MSGWPDGRMETSSPTIMDIVVI *CAIAAEAIVLVSLLFVMLRYM YRHMGTYHTNEAKGTGVADS ADACPADPA
18406	48774	A	18513	141	563	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHTTTIA\EPDPG VS\GLP\DGRMETPTPHP*LTMV VIAGV\IACLWPFVLSLPSSFVM VALTLLTGHKGARTTPNEAKG\ TEFAES\ADAALQG\DPAL\QDA GDSSRK\EYFI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18407	48775	A	18514	182	935	QAFELHCPCKRPFSTLPSPAWPP RHTDLRKRGRRTAQ*YAGNES HPPSLPRYLRRSRH/SRMQAPSS TCSYSHTSLQCSPAPQNH/AQHP *PALEELACG/SPSVSSPYLVLS CQEQPHHCCPPSTPRPSW/CPSS GDAICYSPGQ/CPRSRGPLP\EDS SDSPPAEQVLPPSSGSHNTLYLR CKRFSFILNCEPPSK\C*KPGHR CRS*AGILTLLPPG/ERGP/GDGP CSTGRQSASKTPPPPSHPHTGHS LWSEEK
18408	48776	A	18515	48	676	KARLTWQQTREESLCRETPPYK TIRSRETYSLPREQHGKDLPP*F NYLPPSPSHNTICPG*QDQGRFT QPLYLRCRFSFILNCEPPSK\ C*KPGHRCRS*AGILTLLPPGGE AQHFVKHPSIPL/REGGEVGIK PKKTSPGTELLMQP/CHQSPRT CQPAPRKSNNRP/LGCLSPMKHS TLGYLLWLQKAIWLKGFGTSG W*M*GRFHL
18409	48777	A	18516	86	92	TANAALHQSPRTCQPAPRKS NPQAA*ALNC
18410	48778	B	18517	1	2031	
18411	48779	A	18518	98	367	DFLYLWQHCHPYSHCHPNQ KPGRFLMKLSSIVTIELKNGT TRSHGT\IHQVWDVQ\MNTHL KAVKMTLKNREPVL\ETLSIR GNNIR\YFILPD/SVYPLDTLLVD VDPKVKSKKREAVAGRGRRG RG/TRDVARGR*RGNNIR
18412	48780	A	18519	1	310	
18413	48781	A	18520	37	136	RRRPSSSWALPPSRGPSST*AER GAQHQQPVPA
18414	48782	A	18521	3	305	FFTLCLQWGLFSCESPICSGVGR YWA*VCLCFLQIEAIELPMDPK LNKRRGFVFITFKEEEPVKKVL EKKFHTVSGSKVRCSQLCLASC AAGELALRGMG
18415	48783	B	18522	249	367	
18416	48784	A	18523	1	1008	
18417	48785	B	18524	17	835	

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18418	48786	A	18525	2	1188	SLIKLNSPPPRGGGTARYGAWL LVGGFPCGGGQGGGDTVGAAP WADWGEASAAASFDVLAEC ARLSSLRVGDEAGSRGVIWRAR SPPRLGLALSEAGEE\QPMETT GASENGHEAVPE\ASR\GRGCW TPLRRGLEARPRRPRAGIRTAPR D\QRINASKNEEDAGKMFVGG S\WDTSKKDLKDYFTKFGEV\V DCTIKMDPNT\GRSRGF\GFIK DASSV*K\VLQKEHRLDGRVI DPKKAMA\MKKAPVKKIFVGG LNPESPTTEEKIRESFGEF\GEIEAI ELPMDPKLNKRRGFV\FITFKEE EPVKKVLEKKFHTVSG\ASKCEIK VAQPKEVYQQQYQYGS\GGRGN RNRGNRGQ\GGGGGGG*GQGS TNYG\KTQ\RRGGHQ\NNYKPIL EAGRQERPT
18419	48787	A	18526	3	784	
18420	48788	A	18527	3	1990	PAMNGLSLSELCCFLCPCPPCG RIAAKLAFLPPEATYSLVPEPEP GPGGAGAAPLGTLRASSGAPG RWKLHLTERADFQYSQRE\ST IEVFPTKSARGNRVSCMYVRCV PGARYTVLFSHGNAVDLGQMS SFYIGLSRLHCNIFTYDSSGYG ASSGRPSENLADIDATWQAL RTR*GRPLVGRVRARWRPRLTL LRRRQVRHQPGQHPSCTGRSIG HGAHRGTWPRATSVPRWCCTR RSTSGMRVAFPDQTQERPTASTP FPYIRERCPRLTS\RAHHPTGTK DEVIDFLEAGWRSTRCHQGG GAAVGGGGPGHNDIELYSQYL ERLASLSFSQELPSQRA
18421	48789	A	18528	82	406	

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18422	48790	A	18529	2	1474	ARASGSGSSSGQGKMGQS\QRG GHGSGGGKKDDKDKKKKYEPP VPTRVGKKKKKTKGPDAASK\L PLVTPHTQCRLLKLERIKDY LLMEEEFIRNQEQMKPLEEKQ EEE\RSKVDDLKGGPRLSVGNL GKRF\DDNHA\IVSTP\VGSEHY\ VSIL\SFVDKDLLEPGCSVLLNH KVHAVIGVLMGDTDPLVTV\M KVEKAPQETYADIGG\LDNQ\Q EIKESVELPLTHPEYYEEMGIKP PKGVI\LLVPPG\TGKTFLPKAV ANQTSATFLRGGGSELIQKNLG DGPKT\LSRELFVSEELAPSLR FIDRILPPLGTKRY\DSNSGGE\R EFQRTM\LELLN\QL\DGFD\S\RG D\VKVIMPTNR\IETLDPALIRPR PAFDRKYEFP/LCPDEK\TKKRIF QISHKS/RMTLADV\GTPWTTLI MA\KDDL\SGA*PSKA\CT\EAGL MAL/RENRRMKVPN\EDFKKS\ KENVLYKKQEGTPEGVVSLMN PWL\IRKMVGRFLNP
18423	48791	A	18530	2	274	WQDLICRMAASVKEQSTKPIPL PQSTPG/ESHSLSTSGKSEVRDL FVAERQFAKEQHTDGTLEKVG EDYQIAIPDSHLPVSEERWALD ALRN
18424	48792	A	18531	3	844	

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18425	48793	A	18532	261	2814	VRFRNLIRIYCNIKICAVSHCPP KVFKLNSLFFLHRFDSVAFGES QSEDEQFENDLETPPNWQQL VSREVLGLKPCIEIKRQEVINEL FYTERAHVRTLKVLDQVFYQR VSREGILSPSELRKIFSNLEDILQ LHIGLNEQMKAVRKRNETSVID QIGEDLLTWFSGPGECKI KHAA ATFCSNQPFALMIKSRQKKDS RFQTFVQDAESNPLCRRLQLKD IIPQMQRLTKYPLLLDNIKYT EWPTEKVKKAADHCRQILN FVNQAVKEAENKQRL/EEDYQ RRLDTSSL\KLSEYPNVERLRN MDLTRKMIHEGPLVWKVNR DKTIDLYTLLEDILVLLQKQD DRLVLRCHSKILASTADSKHTF SPVIKLTSLVLRQVATDNKALF VISMSDNGAQIYELVAQTVSEK TVWQDLICRMAASVKEQSTKPI PLPQSTPGEEDNDEEDPSKLKE EQHGISVTGLQSPDRDLGLEST LISSKPQSHSLSTSGKSEVRDLF VAERQFAKEQHTDGTLEKVEGE DYQIAIPDHLPLVSKERRALDA LRNLGLLKQLLVHQLGLTEKSA LENWQHFPYRTAFQGPQTDS VIQNSENIKAYHSGEGHMPFRT GTGDIATCYSPTSTESFAPRDS VGLAPQDSQASNILVMDHMIM TPEMPTMEPEGGLDDSGEHFFD AREAHSDENPSEGDAVNKEE
18426	48794	A	18533	90	383	ILQLHSSGPCLLWL*LSFRSLST TAVCQCCRPAADFHPGSSRV AVLLIQ/HRRPLPLPIGLKACYFS ALSLQTSLTCLGLVVLLDFPKE AASLDKV
18427	48795	A	18534	1	456	
18428	48796	A	18535	830	1092	

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18429	48797	A	18536	391	1824	GSGADASGFISDAGLIFKKASSK GPKRLEKFSDERAAYFRCYHKL FLLFSSLCYGTYHVVLPTLKP REDEDWISLCLRHCLMQK DTH SMLGECGERREGKKQKTGALG SSLSLEDAKHLLPFIPALPFSWN ALPQDLCNVFKLLWDYRIRVD PSPIAGTLIRRDTPQGESHVKT GRHWSDTIKSQRCQGLRQPPDR PIPILLMVKGQHVWPSQLDKAQ IQEVTELNNVKNVARLPKSTKK HAIGIYFNDDTSKTFACESDLEA DEWCKVLQMECVGTRINDISL GEPDLLATGVEAREQSEARFNV YLMTSP*LRMLHGEALQV\T Y\EYICLWGRPRTPEFKLISW\P LSALRRY\GRGTPWFNYQAGR M\CQTGEGLFIFQTRDGEAIYQK VHS\AALAIAEQHERLLQSVKN SMLQMKMSERAASLSTMVPLP RSAYWQHITRQHSTGQLYRLQ DVSSPLKLHRTETFPSLQDS
18430	48798	C	18537	22	620	
18431	48799	A	18538	48	413	EDSKSKTISHPWRDCGDYCHH QGLERCRCGGDSHHTPVQLS*LA CAED\NKSWMRT\GIVSLTKC* LQMQLLYQMWFHCLSKLTHLL GISTLQLCVTILFREILITFPLHKI SHWSITLMTLR
18432	48800	A	18539	23	124	QWVIISLTKW*LQLQLLYQMW FHCLSKLTRLRP
18433	48801	A	18540	1	1860	
18434	48802	A	18541	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKREKNQIDTIKNDKGD ITTDPTIEIQITIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIITGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL
18435	48803	A	18542	1	1521	
18436	48804	B	18543	1	2265	
18437	48805	B	18544	1	1716	
18438	48806	A	18545	1	1704	
18439	48807	A	18546	1	3618	
18440	48808	A	18547	1	3087	

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18441	48809	A	18548	277	350	SPVEKELKLWKNRHKLLSC*W LTC
18442	48810	A	18549	197	422	IVNKVVLPQGGPASPSLKGFVV YKLAQVWKLIEGP*FPIFIQISL LSI*PRSFLFV*IK*ECSRLPISFTS SGR
18443	48811	A	18550	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLS DHS AIKLELRKLNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLEKEKQEQRHSPSRREQE ITKMRAELKEIETQ
18444	48812	A	18551	209	2432	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFEKINKIDRPQ ARLIKKREKNQIDTIKNDKGD ITTDPTIEQITIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGFRPISLMNI DAKILNKILANQIQHHKLIHH DQVGFIPGMQGWLEVLARA/IR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTNKWKNI PCSWIGRINIVK MAILPKVIYTFNAIPIKLPMTFFT ELEKTTLKFIWKQKRSHIAKSIL SQKNKAGDITLPDFKLHYKATV TKTAWYWYQNRDIDQWNTTE PSEIMLHIYNHLIFDKPDKNKQ WGNDSLFNKWCWENWLAICR KLKLDPFLTSYTKINSRWIKDL NVRPKTIKTLEENLGNTIQDIG MGKDFMSKTPKAVATKAKIDK WDVIKLSFCTAKETTIRVNRQ PTEWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAAKRHMKKCSSS
18445	48813	A	18552	1	3255	

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18446	48814	A	18553	1	3139	
18447	48815	A	18554	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQE QTHSKASRRQEITKIR AELKEIETQ
18448	48816	A	18555	1	3345	
18449	48817	B	18556	1	3127	
18450	48818	A	18557	1	3325	
18451	48819	A	18558	1	3145	
18452	48820	A	18559	1	548	
18453	48821	A	18560	1	3229	
18454	48822	A	18561	1	3352	
18455	48823	A	18562	1	1965	MGDFNTPLSTSDRSTRQKVNK DTQEMNSALHQADLIDIYRTRH PKSTEYTFLSAPHHTYSKTDHIL GSKALLSKCKRTEMITNYLSDH SAIKLELRICKLTQNCSTTWKL NNLLLNDYWVHNEMKAERKM FFETIENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEKTHSKTIRRO EITKIRAELEIETQKTLQKINES RSWFFERINKIDRTLARLIKRR EKNQIDRIKNDKGDITDPTQIQ TTIREYYKHL YANKPENLEEMD KFLDYYTLPRLNQEEVESLNRP SGSEIVAIINSLPIKSPGPDGFT AEFYQSYKKELVPLLLKLFQSIE KEGILPNSFYEASIILLPKRGRDT TKKENFRPISLMNIDAKILNKIL AKRIQQHIKKLIHHDQVGFIPG MQGIKYLG IQLTRDMKDLLKE NYKQLLNEIKEDTNKWKNIPCS WVGRINIVKMAILP/KELEKTTL KFIWNQKRACIAKSILSQKKA GGITLPDFKLYYKATVTKTARL YTKHGTSCCGSFGELLPMQKA KRELAHHMAKAGARVKGQLG HVTQHQLGSIEWFNKYSLSYY TVDTKPQFSHTKDNKTGLTCR NRTTVGVDLQAKGNLVVKHLS SLQHCYEFICHI

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18456	48824	A	18563	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18457	48825	A	18564	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18458	48826	A	18565	1	3095	
18459	48827	A	18566	2	2678	

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18460	48828	A	18567	1	2478	MKAEIKMLFETKENKDDTTYQN LWDALKAVCRGKFIALNAHKR KQERSKIDTLTSQLEKEKQEQ TLKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDAINKNDK GDITDPTEIQTIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPIGAEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASIIIPKPGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMISIDAEK AFDKIQPFMLKTLKKLEIKYL GIQLTKDVKDFKENVKPLLKE IKEDTNKWKNIPCSWVGRINIV KMAILP/KELEKTTLKFIWNQK RACIAKAILSQKNKAGGITLPDF KLYYKATVTKTAWYQYQNRD IDQWNRTETSEITPHIYNYPID KPEKNKQWGKDSLFWKWCWE NWLALCRKLKLDPLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIRDIGMGKDFMSKTSTAMAT KAKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFATYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAACKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRTPTRPIQ
18461	48829	B	18568	1	3403	
18462	48830	A	18569	2	2976	APRFIKQVLSLQRLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEITNCLSDHSAI KLELRICKLTQNRSTTWKLNNL LLNDYVWHNEMKAEIRMFET NENKDDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLEKEKQEQTTHSKASRRQEIT KIRAELEIETQKTL\QKINE\SR SWFFERINK
18463	48831	A	18570	472	829	AIASESASPKA WQLPCGAAQQF AALPGLGNYKFPLTLITGYGSN KSPP*GYLVFQTYSSLPLRLPP GHFGFLPLSQ\RLRRELQCWL G*LTQTIKMKSVYHSTTEVRKS MHGIQEIH

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18464	48832	B	18571	1	2293	
18465	48833	A	18572	1	3810	
18466	48834	B	18573	1	4107	
18467	48835	B	18574	87	3161	
18468	48836	A	18575	1	3192	
18469	48837	A	18576	1	1983	
18470	48838	A	18577	1	3156	
18471	48839	B	18578	1	3471	
18472	48840	B	18579	1	2337	
18473	48841	A	18580	1	3852	
18474	48842	A	18581	1	3057	
18475	48843	A	18582	1202	2004	SGIYMIGFEQVLKAQPPLSSPNG PMNKVATVVGMEVMHGLSNM DFHSRRLTWLRPLPGFTGPG/Y QGVKVEVAPLTITPSDPLAKFL LLISATSTSLEVTVPGEMLPPR DTTKIATFGTQTGFLALQLADG LLWDLVIIPGKGKPSRDLVESPS PYSTYEGIDGWPDEPAPTATKP PVMPAPALPPDTRSGSKAPTVP TPYPQMEHHQVQLASNNSNTE ALGHLSPQSSWVQTPGQNSGP AIPNHLGKDMISPPQMAPAGVK WESQKY
18476	48844	A	18583	1	2832	
18477	48845	A	18584	1	3702	MQKKHDKIRNSFMIKTLKKLRT EGIYLNLIKATYKKPITNILLNGE NQKAFALRSGTRFWILALCQM SRLRKL TNYLSDHSAIKLELRIK NPTQSRPTTWKLNLLNDYW VHNEMKAEIKMFFETNENKDT TYQNLWDAFKA VCRGKLIALN AHKRKQERSKIDTLTSQLEKE KQEQTHSKASRRQEITKIRAE KETETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDTI KNDKGDITDPT
18478	48846	A	18585	1	3139	
18479	48847	A	18586	2	2918	
18480	48848	B	18587	1	3242	
18481	48849	A	18588	1	3640	
18482	48850	A	18589	371	522	
18483	48851	B	18590	1	3918	
18484	48852	A	18591	1	3057	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18485	48853	A	18592	1	3233	MGKKQSRKTANSKKQSTSPPP KEHSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTKGKE VENFEKNLEECITTITNTEKCLK ELMELKAKAQELREECRLSR CNQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLTGVPESDGENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSSRRATPRHIIIVRF TKVEMKEKMLRAAREKDRSTR QKVNKNTQELNSA
18486	48854	A	18593	965	4165	TWKGGTTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTHTSKA SRRQEITKIRAELEKETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
18487	48855	A	18594	1	5093	MEGEMNEMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEITNYLSHSAIKLE LRIKNLTQNRSTTWKLNNLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDTF
18488	48856	A	18595	1	131	
18489	48857	A	18596	5382	9269	RAKSPANIIMTGSNSHITLTN VNGLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKK\AGVAILVS DKTDFKPTKIKRDKEGHCIKVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRSTRQKVNTDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCKRTEITNHLSDHSAIKLELRI KNLTQS
18490	48858	A	18597	1	312	

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18491	48859	A	18598	142	876	RKKGILPPKESLKELEEEAEEEQ RILQQSVVKTYEDMTLEELEDH EDEFNEEDECAIEMCRQQLAE WKATKLKKNKFGEVLEISGKDY VQEVTKA/ERRALWVILHLYK QGIPLCALVNQHLSWTLPGSFP DVKFIKAISTTCIPNYTDRNLP/T ILVYPGRRYQGLSLLVLWCLAG MNPQEMSWEWKLSESGAIMT DLEENPKPIEDVLLVLSAALW SS*RGDS DSEGLRATASITCRT
18492	48860	A	18599	1	2310	
18493	48861	A	18600	3	1124	LYNRRRRRRCSHCRHRCRRLSS GLRKEEVISLGASLGRVFPVPCSP PTVSAARGPTGAPGGPNSKPLS GCCDDGFNLGRQQWGNPLPFC SKTISSSLHWTWSQVNLVEILP AIFSSFLNLQHVNLWFLAAAM KAVTEQGHELSNEERNLLSVA YKNVVGARRSSWRVISSIEQKT ERNEKKQMGKEYREKIEAEL QDICNDVLVRGQCFCFEQWFL NSINLMYKCRLSNYFRYLSEVA SGDNKQSK*YL*KEIRPVMEPV FFHRDFTILIRLGLALNFSVFY YEILNSPEKACSLAKTVRKTL DI*P*QNSACVINFILFLNLRDN LTVSTTSTGFIVSFLFTYLIHCY LQEGICTIKCSYSFKLLNLL
18494	48862	A	18601	340	1323	AARPOKRHNHSSLLTGSHIH WKRGRVQNIADVLQFCLYLLT VLFVPCSPPTGMTMDKSELVQ KAKLAEAERYDDMACSSERH VTEQG\HE\LSNEEKKSCSLVAY K\NV\VGARRFLPGRVISS*A*K QRRNEKKAADGQKSTREKIEG RTCRTFCN*CFWELLGQISLFPN ATQPRKVVFYFEK*KG DYF\R YLF*KWQS*RQQTQPTCVGTSP ARAYPGSNLKI*LRKKMQP\TH PNSVLVLAPKFPQSFYIE\NLSP \EKGLVSLGKNGHFD*SNLLNL DTLEWKS LIKDSTSDSWQLLR\ DNLTLWDIRKTRGDEGDAGEG
18495	48863	A	18602	33	89	
18496	48864	B	18603	167	232	

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18497	48865	A	18604	14	600	MAELAPASPSDIKASVSNNGDTT LLCSRRQSCGMNEVRQVSLTYP GSPAPSHSLPLQPRSGGSLCPSR AW/PDPHQLFDDTSSAQSRGYG AQRAPGGLSYPAASPTPHAAFL ADPVSNMAMAYGSSLA AQGK ELVDKNVSGRGWWEWGDARG HRASDLSSASPD\HRFIPITKLKY YFAVD TMYVGRKLGLLFFPYL
18498	48866	B	18605	1	1230	
18499	48867	B	18606	41	931	
18500	48868	A	18607	3	166	PRPFPKSRLPPGIIGGEYD\QRPN PILP\GRGGPNDRFPF\PSRGRP TDGRLSFM
18501	48869	A	18608	212	1881	CLRVLLKRTWPVEVPETGARP /TGGILRSH\LRQSLLCTWGYSS NTRFTITLNYKDPLTGDEETLAS YGIVSGDLICLILQDDIPAPNIPS STDSEHS\SLQNEQPSLATSSN QTSMDQEQPSDSFQGQAAQSG VWNDD\MLG\PSQNFEAESIQD NAHMAEGTGFYPSRTPCSW*L NPVEGQVP\HSLETLYQLADCS\ DANDALIVL\IHLLMLESgyIPQ GT\EA KALSMPEKW\KLSGVYK LQYMHPLCEG\SSVT\TCVPLG \NLIVVNATLKINNEVRKC*KGC SLLPESF\ICKEKLGENVANIYK DLQKLSRLFKDQLAHPLLAFTR QAL\NLPDVFGLVVLPLELKLRI FRLLDVRSVLSLS\AVCRDLFTA SNDPLLWRVFIYICVNFRDNT\ RVQ\DTDWERTVQGRRAHTKE KESPKGRVLWMLLAIRQTH\TIP FYSQPLWHPRGHFPKLP\AFPPGI YSGGWNMDQR\PTFPYVGRTQ SSSLNSWVLGETPKPSFLPLRPR FDPVWPHFPGP*PPSLPRARAGP NDQISPFRRPQQGSGQLIGRLSIH
18502	48870	A	18609	1	1065	
18503	48871	A	18610	1	1513	
18504	48872	A	18611	1	2247	
18505	48873	A	18612	3	421	
18506	48874	A	18613	1	103	
18507	48875	A	18614	3	435	
18508	48876	A	18615	268	501	QLECIPTWELWKEEQERAMA GGGLKKIISATEKKLARMLLAP SASWCCSGP*VFHGST*WGKPG PVSVSLLQGVVLGK

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18509	48877	A	18616	3	296	EAMEAVILTCDPATPAASYQW WMNGQSLPMTHRLQLSKTNRT LFIFGVTKYIAGPYECEIRNPS*V PAASDPVTLESPLLFLNGLATTE TLRKRGNP
18510	48878	A	18617	3	1464	GAVRTWGRGFQTEKCCQASLLN FWNPPTTAQVTIEAEPTKVSKG KDVLLLVHNLQNLAGYIWYK GQMKDLYHYITSYVVDGQIIY GPAYSGRETVYSNASLLIQNVT REDAGSYTLHIVKRGDGTGET GHFTFTLYLIPWTLTYL*RSLA QVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCRENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSNLYP REDMEAVSLTCDPETPDASYL WWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKYI TINNLNPRENKDVLAFTEPKS ENYTYIWWLNGQSLPGSVPR VKRPIENRVLIFTPCSRGIEGVP YQCEIRDRYGGHPQLPSHPGM SSITTKHSGLYACSVRNSATGM ESSKSMTVKVSAPSGTGHLPLGL
18511	48879	A	18618	79	1516	
18512	48880	B	18619	96	1730	
18513	48881	A	18620	9854	11033	ESLCFPKTEQEASQSLSP*IIHLS CDTCTSYWLSRTHVG*QVGDA NSE*RMPVEESKVPHRTIFCYPH S\KLPMPIYITINNLNPREKKDVL AFTCEPKSRNYTYIWWLNGQS LPVSPRVKRPIENRILILPSVTRN ETGPYQCEIRDRYGGIRSNPVT NVLCEYPLFLCGPGHQLNSKRP EARPLSLSPVQV*TTLLDIRPG HDSLPWEILGRHSLNQEYKGRG ALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHRLCLGSEG HCVPLRDQEHPLPLDDITCGFIL FPPDGPDLPRIYPSFTYYRSGEN LDLSCFADSNPPAEYSWTINGK FQLSGQKLFIPQITTNHSGLYAC SVRNSATGKEISKSMIVKVS GK WIPASLAIGF

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18514	48882	A	18621	3	1350	GRTAQLTAVLRKLLDPRLISTE ENTQAAETMGPLSAPPCTHLIT WKGVLLTASLLNFWNPPTTAQ VTIEAQPPKVSEGKDVLVHN LPQNLAGYIWYKGQMTYVYH YITSYVVDGQRIIYGPAYSGRER VYSNASLLIQNVQTQEDAGSYTL HIIKRRDGTGGVTGHFTFTLHL ETPKPSISSSNLNPREAMEAVIL TCDPATPAASYQWWMNGQSLP MTHRLQLSKTNRTLFI FGVTKY IAGPYECEIRNPVSASRSDPVTL NLLPKLSKPYITINNLPRENKD VLTFTCEPKSENYTYIWWLNG QSLPVSPRVKRPINRILILPNV TRNETGPYQCEIRDYGGIRSD PVTNLNVLGPDLPISIYPSFTYYR SGENLYLSCFAESNPRAQYSWT INGKFQLSGQKLSIPQITTKHSG LYACSVRNSATGKESSKSITVK
18515	48883	A	18622	273	2271	CGSWLMTQFSMDKRQGRSRSV TITNTAVTSLEWVPFHAFaipRS TLVSQQGATSHDNTQEMDSP GQEPGFAKEVEVEPGFQPLPQM TLLVPAMCLLLHGACSAKGFC AAPHFLLASPMGKGQVPLNPFS FTLSEELDLPQSLKRNPKGCIAR RAKPILAAERHKRLILHTSTKEN TLLDNRVIECLTMEAVAKFNIM KEREKPSHQPALSPPKARWHIL WQKLMFTASLLTFWEPPTTAR VTTEAMPFNATEEEEEFFLLA HNLPQNLTRATIWYK\GQMRH LYHYITSYVVDGEIIIYG\PAYSG RETAYSNASLLIQNV\TRED\AG SYTLHIIK\RGDGTGGVTGRFTF TLYLETPKPSISSSNFNPREATE AVILTCDPETPDASYLWWMNG QSLPMTSHLQLSKANRTLYLF GV\TNYTAGPYECEIRNPVSAS RSDPVTNL\LLPKLPKPYITINN LKPR\EE*GCLRPF\TCEPKE*GTT PYIWWVKRFRSLPVSPGVKRP LKNRI\LIPTPVFTRKWQGPYS MWNYGDRYGG\IRSLPSSPWNV LLWVQDLPRILPFHFTYYRSGR KSSYLSCSGGTLNPPAQYSWD N*WKSFQLTRGQKLFYSGHITT KHSGLYVC\SVRNSATGRESSK SMTVEVSDWDITLNSTSTNSIF
18516	48884	A	18623	1	1131	

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18517	48885	A	18624	1	603	MDIADPFSGFP M G M G G F T N M N F G R S R P A Q E P T R K K Q D P P V T H D L R V S L E E I Y S G C T K K M Y Q E D \ K I S H K R L N P D G K S I R N E D K I L T I E V K K G I S L P E A L C G / T T V N V P T L D G R T I P V V F K D A I R P G M R R K V R G E G L P L P K T P E K R G D L I I E L E V I F P E R I P Q T S R T I L E Q I L S S Y L S Y L S S P G L T R D L S R A Q G F L D L S T S C G P
18518	48886	A	18625	3	1228	W S A A E P V D G D S G S A G R R R R G P W P K T T Y H P W A V A R G A S E K E I K R A Y R R Q A L R S H P D K N K E P G A E E K F K E I A E A Y E V L R D P R K R E I F D H Y R E E A L K G S G P S G G \ S G G G A N A T S F S Y T F H G E P L A M F A E F F G G R N P F D T F F \ G Q \ R N G E E G M D I D D P F S G F P M G / L W G G F T N V N F \ G R S R S A Q E P A R K K \ Q D S P \ V T H D L R V S L E G D L T A A V P R R C T K K M K I S H K R L / N T P D G K S I R N G D K I L T I R S E R R G W K E G T Q I T F P \ K E G D Q T S N N I P A D I V F V L K D K P H N I F K R D G S D V I Y P A R I \ S L R E A / L C V G C T V N C P H S G T G R T I P V V F K E C Y Q G L G M R R K S S W E N G L P L P Q N T R E N V G D L I I * G F E V I F P \ E R I P Q T S R T V L E A G S F Q Y S Y L E V P Q G L T R G P F P E L K D F W D L F L P V V G P
18519	48887	A	18626	321	1121	G D A V P S A P R R P S R R T P G C G S R G A L Q P G P P P R A \ P P P E P \ P P R G A A A A A P P A G P A A P A A R Q P P R R P P A Q P R S C P R R V R P T P A W S P P G R R G P R R S R R R P P G G P G P A A P L R L S R A H S P P A P P G S P Y R P H G A G T S V A P W T R P P A A R G T E A D P G R C P V S A P G T A P G Q M R G R S A T Q R L H R G H S T A P G A G G R C G R R P G G S G R P G A G A G P R R S T A A P P R C R R R S P T G P R S P R G P R S A R P A R G S V G G P R G T P G K Q P G P R R A * T S G P E P R C C G H A R G
18520	48888	A	18628	191	653	K L E I Q R L L R M T T E C I R H T K Q K K F G S P G L Q P P L P G N A K S R A D S T A L P A L P A Q Q K E T K Q Q E P G E S S * E P G G S S P S R M E R A E A A P A Q S / P A G G T G T G Q G W G A P H L G P A L A R R V T G P P Q H G S P G P R T R P T P Y P A R C / P S R P I F V P A I V W S R L R A P P G L P
18521	48889	A	18629	141	319	

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18522	48890	A	18630	178	722	PLGNVSCSHRSFQTARVDYSLI YVLAWGQKKEVWELRNWQTH ALMKLKNKLREPRTSVNKD/SP KSLLYSCSYSYFDEPVELRSSSF SSWDDSSDSEYETHLLHLKLV* PNLAVFNCRPTARRKPDYEPVE NTDEAQNSFCKTAHNLWSLTFP FPCLL*YETRARLESWSLSCLR YEHISSG
18523	48891	A	18631	2	367	
18524	48892	A	18632	1	381	QRYSSRRATPRHIIVRFTKVERK ETMLRAAREKGRVTHKGKPIR LTVDLLAETLQARREWGPIFNI LNEKNFQPRISYPAKLSFISEGEI \\NPQMLR/DFVTTRPTLRDLLKE ALNMERNNRYLPGRPL
18525	48893	B	18633	1	846	
18526	48894	A	18634	3	1170	VGSMTGEASGNLQSQRKAKRK EARLTCLEPVEEPGSGTHPPMC YLAPPMWKCKQPETGIKEGDR DHNSLPAREENQTENESDELTE AGFRRWVITNSSRLKEHVVTQC KEAKNFEKSLKELLTRITSLEDN INYLMEPRNTAREHREAYSSIN SQIDQAEKIPEDQHNEIKRE DKIREKRMKRNKQSLQEIWYD VKRPNLSLAGVPESDEENGKIL KNTLQDIIQENFPNLAKQANIQI QE\\QRTQPQRYSLRRATPRHIIVR FTKVEMKEK\\MLRAAREKGRV THKGKPIRLTADLSAETLQAR/ RTEWGPIFNILKEKNFQPRISYP AK\\SFISEGEIKYFTDKQMLRD F\\VTTR\\PALKRAPGKEGT*TLE RDN\\RYQPLQKHAKL

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18527	48895	A	18635	73	1504	QDLRLFYLKDTMFSKLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVALÆERGKGILLMGM*E GRKYF\DFL\SSYSALSNOQ\HC HPKIVKCSGRVKWDKIDL*HLE AFYNNGTLVNMREYYY*TFST YHKVLP\MNTGVEAGETA\CKL A\RKWGL/YTVKGIQKYK\AKIV FAAGNFWGRTL\SAISSSTDPTS YDGFPGFYARDFDIIPY**SCPH MEQCSFKDPKCGLAFHG*EPIQ G\EAGV\VVDPDG\YLMGSAESS GTRDQVLFICLMEIQTGLARTW *DGLAVDYENVRPDIVLLGKAL SGGLYPVSAVLCDDDIMLTIKP GEHGSTYGGNPLGCRVAIAAL\ EV\LEENLAENADKLGILRNE LMKLTLP/SM\VTARKKEKGIY LNAHLAIKGNQKIWDA/WGKV CLRLQDNGLLPKPTSVATLSRF APPLVIKEDELRESIEINKTILS
18528	48896	A	18636	2	348	
18529	48897	A	18637	588	801	RTAYFCQYHTASVYSERAMPP GCPEPSQA*ELQETGHRQVALR RSGRPPKCAERPGAADTGAHCT STDGRL
18530	48898	A	18638	175	510	NSESPGPLWWLSCDNPAKDRIY STEADGLGLPDQSFVVHRAQL* CVAG*LGTHSRFQEWAV*D*SD LLKAQLHFKVGRCVWEAGGGL EWVLGGRCRCRVPQPLETLIQ WGPW
18531	48899	A	18640	1	1431	
18532	48900	A	18641	202	994	RWQGQRLLLDSNIRLWVVLPIR YSFTFFRRALIRHYV\SILLAERQ RSFTQGKNKYLDSSSPNFEGRV/R FRGKLGNYIPKQSF\G/RRKFLF FPNPEDGIFSKKLKREVVPPSPM TDPTMLTDMMKGNVT\NVLP ILIGGWINMTFSGFVTTKV\FPL \TLRF*A*WLQQGNRSYSPFCI PG*/WFCIPGYFPQCILGFRSI/YT LWISGGKDNGRWNQSRMM/DR SRMTGASHGPWPADSGRRFPN KRWEAL\ELTDHQWALDAAGE DAA
18533	48901	A	18642	97	224	LPTKSTWVAGKK*KKRSNIKD YSTPLTSYRSIRSHAFKIVAS

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18534	48902	A	18643	117	457	IWGDVEK GK\KVFYL*RCSQCH TV*/ERGGKHKTGPKSP*VSFGR RTGQAPWD TLYTAANK\NKGII WG\EDTLM EYLENPKKVHPLD TKMIFVRHLRKREERADLIALS SKKLLN
18535	48903	A	18644	411	1054	VTGAQRLVTCRMGKQNSK\LA P\EVMED\LVKSTEFNEHELKQ WYKGFLKDCP\SGRLNLEEFQQ LYVK\FFPYGRRLP SFAQHAFPN LSTRMGDGT\IDFREFICAL\SITS RG\SFEQKL\NWA FNMYGPGW VMGKITRVEML\EIHRGLSYQN G*GTVIMMKMNEDGLTP\EQRV GQDFSARWVRNKDDQIYTGID FKGSCQRADPFIV*LL\QCDIHK
18536	48904	A	18645	3	475	GAEGARGGGSSYSEMAETVAD TRRLITKPQNLNDAYGPPSNFL EIDTNLP IFKLKESTVRRRYSDF EWL RSELERESKVVVPPLPGKA FLRQLPFRGDDGIFDDNFIEGKK TRGWEQFINK/VSLGHPLAQNE PLFFHMF LQDEIIDKSYTPSKIR
18537	48905	A	18646	1	695	LRARSLRDRCARAPCPHGGQQ RRRRLNAEGAEGARGGGSSY SEMAETVADTRRLITKPQNLND AYGPPSNF\LEIDVSNPQT VGVG RGRFTTYEIRVKTNLPCFQS*KN LIVRR\RYSDFEWLAKWNLERE SK\VVVPPLPG\KAFLRQLPF\RG DDGNILMDNFI*/EERKIRGWSS FLNKVA\GHPLAQN\ERC\LHM VFYQDEIIDKLLLP SKNKAMP WKFGPRKGAKNVDY
18538	48906	C	18647	3	474	

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18539	48907	A	18648	156	1254	RPLHTEVLRRMTKRLVTKAA ASAARAQPAEPRDRKYDKHLS YLATWGRSAGRAGSPRGARGR ELARAPVSLPAGVPGRGSAA HSSEARTGPNGKMGGSSREPGT EKVPCPRGLSPTRVGHQVHGT LGAGPNELHPSGPAGARCRPGR REAKLGDAARSEAQSSAHKFHI DSLSPWNPTAMEMLMPKKNR IAIYE\LLFK\EGVMVPKK\DVPI PKHPELAEQKCAPTFHVMK\A MQ\SLKSPRPT*KEQFAW\RHFY WYLTNEGIQ\YLRDYL\HLPPEI VPAHPYGRSPSRRLARPRPKKV WKGEATLRDFTRGEADSFLCH S\DSYRRSAVPP\GA\DKKAEAG GLGQKPNFQF\RGGFVRGRGQ\A
18540	48908	B	18649	1	1053	
18541	48909	A	18650	1	529	MGRYMEREPLOQGNHRRSGLSG ERCSHMGGVLIERRRELQTETRK EGVVEWCWLEKEVLATITKPV RGDKNGGTQVVKHKRMPRIYY PTEDVPQKLLSHG\KKPFSQHM RKL/FLYRRHARNLSLPPQPELII SDVK/IPRHPADA*LEEQQ\SEP E/HSEGTSY*RIPEKVL\SYPAIRP
18542	48910	B	18651	258	363	
18543	48911	A	18652	197	398	ARMSQEKDFHKVMSALKARTG HLHFFCGGMSSVKVGQGFSLLL *FFSYFRPSGCILPL*ELPEARCP
18544	48912	A	18653	215	932	GTQSCNQKVLNSANNLQELGIG PKFQMRLLKQPLAPMQPNRGTS LGRSIPCPPVLCSMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP*VASPLF*RSKYPNLVSL CPSPLFPRPDLLSLWPNPLF\RTPT TSYISVPQSLISMPRLISAPQPLI STTQPLSRFSGRSLLQVPEIWPP GQGMPAARDSS
18545	48913	A	18654	1	378	
18546	48914	A	18655	14	380	
18547	48915	C	18656	228	260	
18548	48916	C	18657	99	335	
18549	48917	A	18658	55	474	RQVPLFWGRGKYPNPFSLCLYP FSAFLGGKKHPTSPSP*VASPL F*RSKYPNLVSLCPSPLFPRPD LSLWPNPLFRTPTSYISVPQSLI SMPRLISAPQPLISTTQPLSRFS GRSLLQVPEIWPPGQGMPAAR

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18550	48918	A	18659	1	187	AELATGNVKEASGTPEEKAGSVLG*ACFAGP*ERCCWQNN*DGIISIQSYCLCNLGCFIQT
18551	48919	C	18660	1	357	
18552	48920	A	18661	3	148	
18553	48921	A	18662	1	312	
18554	48922	A	18663	149	457	
18555	48923	B	18664	1	675	
18556	48924	C	18665	110	928	
18557	48925	A	18666	495	817	LTSPSRCTHIEKSCSSLPPL*DKPQPHLQHTRTSKRLNCSSQVFLQNLLPEELATSSRNLATGPRNACSPGFLLSHIPSVWDPTGNRTVQLTWQPLPEPELELWPKAL
18558	48926	A	18667	228	3021	VFDRTQNVQGRIMEAPEYLDLDEIDFSDDISYSVTSLKTIPELCRRCDTQNEVDRSVSSSSWNCGISTLITNTQKPTGIADVYSKFRPEKRVLPLKHQPETLENNESDDQKNQIVGEYQKGGESDLGPQPQELGPGDGVGGPPGKSSEPSTSLGEL EHYDLDMDEILDVPYIKSSQQLASFTKVTSEKRILGLCTTINGLS GKACSTGSSSESSSSNMAPFCVLSPVKSPHLRKASAVIHDQHKLS TEETEISPPPL
18559	48927	A	18668	1440	1764	ERSTYNLRSSDQP/RPRNILT NFKS/VDKGDTFYPWTHNSGASHGLGR\RLPWC*ELATSARNLTPRPRTAGSPGFLLSHVPSVWDPTANRTVQLTWQPLPEPELELWPK
18560	48928	A	18669	1	3255	MLTLTGAGGESWIIRPGNLLEQLGAEETLGRRQEPGDEVTAHFL LQGVINMGVPYPYGAHSSNMPGSVSPILGHSVKLFEEYYPVGDPLMGSGRPHTPRKKIWSDLNAHSDLYLALDWTPLPEQSEPGPGLAAWKPFQAE EYTCKCAEGNE NTPFDLRKGTLP CPRNLERARQAYMHIEEKFPFELTEQHICEFQSMCYVLVRVLGACSQSTWLILEPDGVSGPSKGASEAIGQCQSSAAKPRRSGKESVREPWA

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18561	48929	A	18670	1	1442	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKRTL QKRKKGMPPHPA/S*GPKHSCH HSPCQCCPSSAK/SASELQGSWT PFGGLLTRTRMKFGAKTRDLD QGTSLGRSLPCPPTLCSMRKIHL RPQVLRPTSPRNISPISNPRQR QVLSMDPKLRHRSRTGK/DSL LVFNHCRDTSIIHPCFKGVRPR RDACLGPSPLAASPAFLEKGQD LINLAFKVYNNRKKLQFLASTV RQTAATSPAHKNFQMPEPQRP GVPPEPPPTGACYMCRKIWPLG QANARSPGFLLSRVPSVRDPTG NRTVQLTWQPLPEALELWPKA
18562	48930	A	18671	140	327	
18563	48931	A	18672	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
18564	48932	A	18673	218	674	MPISRPTARFKRIKVYYHSPAT AWPSKAYKLPLQFPHTCPKTR QGLQVTSAPSAPYQPNCFVYPPR VAKTKYSPILNTSLHNPLLCSGS QTCFLY/SFLCTFHPSLSSLGL TLTPIRLSKLRGLYCHKASQTA PITSIKPKFLPHLLPISA
18565	48933	A	18674	1	268	
18566	48934	A	18675	1	458	
18567	48935	A	18676	3	461	LLLTQSLFGGLFTRTRMKFGAV TRIGGPPLGNQSPSSCSLLHEKD PPTTSGPQTDQPKKHLTNFKSA ARPTFLGQGQVPLNPFSTLS/E QVLLS*AARTPQSLISTPQPLISV PQSLISVPQPLLYFSGGQEPPPPP LLCVSSLFSRLASFTM
18568	48936	C	18677	156	329	
18569	48937	A	18678	449	667	
18570	48938	A	18679	79	311	

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18571	48939	A	18680	1	693	MAPTNCKGSRKCGRPHEQMPH PYLPLLTFLFSDSARLHPGEINSR VPHTKPVWWSLHTDAYEIWYH DSDWGDLPWEINPLSSCSLLHE KDPPTTSGPQTNQPKHELMNFK SGPHWKSDCPTRQPLPGPLELW PKA/HLTDSFPDLLSLAAED*CC LIALEAPWTITDAELWITLTVED SQLYEDTLAGRSVLIKNLTP*TL Q/PLDGLDPT*SSIVQLPSACRI LPTGFTVPE
18572	48940	A	18681	328	865	
18573	48941	A	18682	451	1238	TALLLTQSLFGGLFTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLLSLACYSMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPPQSIILFWISNVLSLLF LCTLHPSLSSLSLGLTLTPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
18574	48942	C	18683	870	1037	
18575	48943	A	18684	933	4323	AASHLCGTPLEIGLSNSPGSHSQ SPWNSGPRLSDCFDLLG*VAE D*HCPPIASEASWTVTNELWVTLT VEVAATALILLEALKITSYAPLT LYSSHNFNQLFSSSHLT/PYTFC PQ/GPFSYTHSLLSLPQSPLLLA QTSIRPPTLFLIPHLTPMTVSL*S/ ILTFIPFPHISFFPVPHPDHTWFID GSSTRPNRHTPAKAGYAIVSST FHEATALPPSTTSQQAKLIALTQ ALTAKGLLVNIYTDSKYAFHI
18576	48944	A	18685	849	1944	WQVPLFSGRGKYPNPFSPCLYP FSAFPGKRQELATSARNLSDHQ AKECLQPRIPPKPCPIFAGPHWK SDCSTSPGQPLPEPLELWPKA/H LTDSFPDLLGLAAED*HCPIAS EAPETITDAELPVTLTVEGKSIP CLIDTGATHSTLPSFQGPVSLAP ITVVGIDGQASKPLKTPPLWCQ LGQHSFMHSFLVIPTCPLPLLGR NILTKLSASLTIPGVQLHLIAAL LPNPKPPLCPLTSPQYHPLPQDL

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18577	48945	A	18686	2	377	KGATIVYALDTLFIMEMKHEFE EAKSWVEENLDFNVNAEISVFE VNIRFVGGLLSAYYLSGEEIFRK KAVELGVKLLPAFHTPSGIPWA LLNMKSGIGR\NWA WASGGSSI LAEF\GTLHLEFMHL
18578	48946	A	18687	215	1135	PITLRRHLFFSGIGRNWPWASG GSSILAEFGTLHGMKIVF*/HFH GNILFS\KVMNIRTVLNKLEKH YLN*KLNHSKIHFPLFPDHVS GGLGDSFYEYLLKAWLSINLRR DYKMLKNKCFSQAIETHLIRKS SSGLTYIAEWKGGLLEHKMGH LTCFAGGMFALGADAAPEGMA QHYPVSTVQENNPYSFIPCPLV MKLGPEAFRFDGGVEAIATRQ NEKYIILRPEVMETMYMFRL SGSDFSSFLLLPPQASSCFQTLF DLFKVPDSLCSILEFRRHSSRQP YSTDQPFYILVGKRILFCPLT
18579	48947	C	18688	304	400	
18580	48948	A	18689	16	450	
18581	48949	A	18690	1	777	GHSMDMRVPAQLLGLLLLWLP GARCVIWMTQSPGTLSPGER ATLSCRASQRVNSNYLA WYQQ KPGKTPKLLIYGASNLETGVPS RFSGSGSGTDFIFTISLSQSEDIA MYYCQQYNNWPHPS\TFGQGT KLEIKRT\VAAPS\VHLPGPS EQLKIWELPSACVPA*NNF\YPQ SRPKVQWEGGITPLQ\SG*LPQE SVHRGRTRQGTAPYSPQQAPW TVRQSRITEETQSLTACEV\TPS GALRFRPVHKGAFNRGESF
18582	48950	A	18691	3	688	HASADAWAANAEEHRHDP GTLREYK\VGRCCLPTPK\CHT PPLLPACEIFAPNHVVAKS/RAF WYFVSQK\KMKKV FQKIGL LVGQVF*ESSPLR/V*KNFRGSW LAAMDSRERAPTNNMLPGNNRG P*PPAGGCSTQLLTRDNGVAPG TGAPKPHFHFRIERLEGRFAG QQSCRRP/ALVQSSFHDSKIKFP ACPNGVLRRQHKPRF\TTKRP TFFLGAGPSSGVC PK
18583	48951	A	18692	1	784	

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18584	48952	A	18693	1	4713	MQGPYLLWLWLPDSLEEGKEGL YLGNCIHTCLVTPEDAFFPHF LTQHSGTHLPPSSDIPSHFMNNS TGRLAQRILGTSTEAFLSPEVM VFVHARNATVRTAMSLIERAK NCGHIPFFFTQGH DYVLA EKQ VQSRNKQVRELFPDGF SIIHHA GMLRQDRNLVENLFSNGHIK V LVCTATLAWGVNLP AHA VIIKG TQIYAAKRG SFVDLGILDVMQI FGRAGR PQFDKFGEGIIITTHDK LSHYLTL LTQRNPI
18585	48953	A	18694	313	489	SSCFKLHFQQLFKNCNTQMRN QIGFLRF*NNLVMLLSSSVTNQ LELQKKIILLTCKMQ
18586	48954	A	18695	1	851	ACGWALAQRPARRAMVAGID AGRS\LG VLSV VCL LHCFGFISC FSQQIYG VVYGNVTFHVPSNVP LKEVLWKKQKDKVAELENSEF\ RAFSSFKNRVYLDTVSR*PSLST T*TSSR*KMKYEMESAKIVTD\T MKFLPYVP*VSFQSPTLT\CA LT NGSIEVQCM IPEHYNSHRGLIM YSW\DCP\MEQCKRNSTSIYFK MENDLPQK\I\Q\CSLSNP\LFNTT SSIILTTCIPSSGHSRHR YALIPI P LAVIPTCIVLYMEWVF*KCARN PDRTQLQLIGNRRMKTTA
18587	48955	C	18696	35	181	
18588	48956	A	18697	75	344	PQVLRPTSPRNISPILNRVSDHA GTPALVLHP*RQVPLFWGRGK YPNPLYLCAPYFRT/HNLISLR PNPLCPHPDLVSLCPDPFPAFLE
18589	48957	A	18698	1	268	
18590	48958	A	18699	39	376	QYISELQFLASTVRQTPATSPA H KNFQTPEPQQPGIPPEPPPGAC YKCWKS GHQA KECLQPGIPRK PRPISGSHS QSPLELWPKA/HLT DSFPDLLGLAAED*HCPIASEAL
18591	48959	A	18700	2	295	CQTTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RQVPLF WGRGNHISGTQELPNT*TAV/V QAF/LPEPPPTG/CLLHVPEIWPL GQGM PAGQDSS
18592	48960	A	18701	81	402	VKFGPEIWC RSDSDQGRGGVGT SLGRSIPCPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPELELWPKA/HLTDSFP DLLGLAAEDRCCPIASEAP

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18593	48961	A	18702	165	439	PPRQAKMQNLAAPGSHSQSPW/ TLRPKAL*LTSPQIFSA*RLKTD TARSPRKPPSFQGPVSLASITVV GIDGQASKPLKTPQLWCQLRQ YSFK
18594	48962	A	18703	284	511	IILVVKWANGRLCLTSRHSFTH QSLPS/PLCPVQLVPNLSRLSPQS QPQASLSLSN'LPFLQTHLTSPFL PRLLLARPK
18595	48963	C	18704	414	557	
18596	48964	A	18705	1	1284	MNFEGTETLHCNGHCKVIAMT LGNQEVNQNFSTGTTGPMEG MWLLSSNSHSLKYAGAILLS AFQYQERGSQAGHRDSWPETK ETHFICGPKTPALVTDWEGSLP LVFNHCRDASLIHPRFSGVRPR RDACLGPSPLAATPQTITDEL WVTLTVEVWDIST/LFPGN*SH A/TLPSH*NLITLTPLNANI/AIPQ HALKGLKPVITRLLQHGLLKPI NSPYNPILPVQKLDKSYRLVQ NLRLINKIVSPIHPVVPNPFAFTS QITQAVSQALGIQWNLHIPYHP QSSGKVERTNGLLKVHLTKLSL QLKKDWTVLLPLALLRIRACPR DATGYSRFELLYGRTFLLGPNLI PDTSPLDGYLPVLQQAQAN LLLPTPDPQPHEDTLAGRSVLV KNLTPTQLQPRWTGPHFIISTP TAVCLQDPPH
18597	48965	B	18706	1	933	
18598	48966	A	18707	3	435	TKETGFIHGPKTPAPVTDWEGS LPLVFNHCRDTSIIHPCFKGVR PRRDACLGPSPLAASPAFLEKG QDLINLAFKVYNNRKKLQFLAS TVRQTAATSPAHKNFQMPEPQ RPGVPPEPPPTG/CLLHVPEIWP LGQGMPAARDSS
18599	48967	A	18708	2	111	
18600	48968	B	18709	1	595	
18601	48969	C	18710	1	1344	
18602	48970	A	18711	227	385	VPILPQPLLLHPAIFLSPLLTPG PAYSFVP*LALPHLPSNLLLKR WLEPKA
18603	48971	C	18712	148	258	
18604	48972	A	18713	215	693	
18605	48973	C	18714	1	816	
18606	48974	B	18715	1	513	
18607	48975	B	18716	1	1452	
18608	48976	A	18717	1137	1303	

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18609	48977	A	18718	2	2107	IDMIFTPGPPSTPKHKKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMGKFKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDVPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRRSITRDS LTLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVD AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTTSGPQTDQPKKHLT NFKSAARPTFLGQGVPLNPFS FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEPPPPPLLCVSSLFSLASFTM GAFTHGTQTPSPTKATAPRYPQ TGDLSAEWPFTAGEEPVLVPRP
18610	48978	A	18719	828	1063	RHSQAAED*HCPIALE/VPQTIID AELRVTLTVEGYSLPPGCLRGL MLSVSGFSRSTVQAVSGSTVLG SGGQWFSCASV

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18611	48979	A	18720	183	1140	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSG ETKEMHFIRGPKTPVPVTDWEG SLLLVFNHCRDGLSDHSATFQG CQT/MAGMPALVLHP*RQVPLF WGRSKLLARLS*VPILPQPLLL HPIILLSPPLTPGPAYSFVP*LS MSIHQVVLRPDEQGPGEQQPP LYVMPEGEINSFIAHTKPVWWS LHTDAHEIWCHDSDRGTSLSGRS IPCPALCSVRNIRLRPQVLRPTS PRNISPILNQERQRRCIFVDPK LRCQSRTGKAAPSWCLIIAGTA SLIIQPHFKGVRPCRDACLGPSP LAASPAFLGKEQAAPCQAEELGP NSSASAPPYPNPFITSPPHTRSG LQFRSVTSPPPAQQFTLKKVA GAKDIVKASLAPALAQGVPGTP QATASEGASLKSWECLCGVNL ATAQSARVKEACQEACQSLPRF QRMYEKAWVPKQKTAEVELS QRASTRVVLRGNVGLESPPSRVF SIALSSGAVGGVHCPSDHRMIE PAAFNLMSKNPQRQSCSLRA
18612	48980	A	18721	372	906	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQTDQPKHLTNFKSE KKETRFIRGPKTPAPVMD*GRQ PSLGV*PLQGCLSDYSRPFQRC QTTQGHLPWSFTLSSKSHFSGG RGKSLLQVPEIWPPGQGMPPAA QDSS*AV\PICAGPRWKSDCPTH LAATPKAPGTLAQGSLTPSQIFL
18613	48981	A	18722	983	1980	KFGLVQLTLGKPLPELELRPK A/HLTDSFPDLLGLAAED*HCPI ASEAA*TITDTELRTLTVEVW DIST/LFPGN*SHA/TLPSH*NLIT LTPLNANI/AIPQHALKGLKPVIT RLLQHGLLKPINSPYNPILPVQ KLDKSYRLVQNLRLINKIVSPIH PVVPNPPAFTSQITQAVSQALGI QWNLHIPYHPQSSGKVERTNGL LKVHLTKLSLQLKDWTVLLP LALLRIRACPRDATGYSRFELL YGRFTLLGPNLIPDTSPLGDYLP VLQQAQQAANLLLPTPDQPHE DTLAGRSVLVKNLTPQTLQPR WTGPHFIISTPTAVCLQDPPH
18614	48982	B	18723	1	271	

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18615	48983	A	18724	803	1158	CSWHDRFPDWKAGNLLSLAA* D*HCPASEAP*TITDAELQVTL TVEGSGDLPWEINPPSSYTLLCE KDPPTTSGPQTNQPKKSHQFQ IRDKGDTFYPWTHNSGASHGL GRQPSLGV
18616	48984	A	18725	1855	2506	GASPSVWDPTENRTVQLHLGS HSQSPWNTGQRSRDLSFPDLL GLAA\ED*HCPITSEAPLTITDAR AMG*LSTVEGKPVFPLINTEAT HATLPSFQGPVSLASIT\VVGID G\QAF*TSCLKPNSWCQH*TIRR FKHSFLVIP\TCQVPLLG\EDTLT KLSASLTIPGLQLYLIATLLPNP KPPLCPPLVYPHLNPQV*DISTP SLGDRSCTPYHLIKT
18617	48985	A	18726	2	979	TSTMAVGKKNRLTKG\GKKGA KKKVVDPFPR\KDWY*RRKHPL MFH\IRNIEKDVGSPTPRDPKL QSDGLKGSVCLKVSPAELPE*L KFAFRKFK\LITEDVSGVK\TCPD LTSHGAWDLYP*QNCCSMVQK MGRPMIEA\HVECSRLTD\GYLL \RLFVGFYLNKRNISDHGRPSY AQPPNRVRI\QIR\KKMMEIHDPQ RLQTNVP*KEVVNKLIPASIGK\ D\EKACQ\SIYPL\QNVF\VKKV KMLK\KPKF\ELGKLMELHGE SSSGKATGDETGAKVERADGY GPPVQESVGKFRLPVGNRSGH CVKKEKQSSRRRDFGVS\HPRI
18618	48986	A	18727	1	615	ASTAAPRMLLLFPQRYRTLQPP RLLMPKKNR\IAIYE\LLFK\EGV MVPKK\DVPIPKHPELA\DRNVP NLHVMKAMQVSQSPRG\YVK\E QFA/WKKISYWCLTN*GYQGV ISSRDYL\HLPP\EIVPA/TPLRRS RPED/SGRPSA*KGLEG*SDLAR LHKNGEAGQRLPYRR\SAVPPG \ADKKAEGGLGQKPEF\QF\RG GFVRGRGQ\PPQ
18619	48987	A	18728	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL\GILLHL EELAQTAEGRQQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH

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18620	48988	A	18729	323	1973	PCMWIGFAAVRKGLKDSSSASC GCTRRVRGTWWQGLSRVCVA RNEEVRLWGLCWLGSSPPAGW NNVFYMLISADVLACLEPRAN KEAANELAGAVDLGWMANVR RNPRDMVTSTHLGTHFHLRKTP PRGEKTCELASQQPLIEATTKT KSAVAVSHILTYTPPTLNGVA SSRVHFSFWPPTLQTGLEQGS SFTICFTTSTNYQSLHSIQPHSHS VQFISSTAKVYAVLRGLGSRTS VSFSTFSWGSWGSGGLAAGMP GIDNARLAADDFRVKYKTEL MCLSVESNVRGLHKVTDNTN TRLQLETEMEALKEELLFMKK NQEKEVKGLQALIASSELTMEV NAPKSQDLNIMADLPAQYDEL A\RKN*EELDKYWSQED/IEEHT TVVTNTSLLEVWSC*DARLTEL RRTSPGLWRFDLDSM\RNLK\AS LENSL\REVEAPYALQMEQL\N GILLHLESQLGQTPRTEAQRQA Q\EYEALL\NIKVKL\EAELATLP GRLGRMAKDFNL\GDS\LDER NSFQNL\QKTNTPPGNVDGKVV SETNDTKVLRH
18621	48989	A	18730	1	897	MGHHRRQSLSPVLSLYSPDSMS FTTRSTFTNYQSLGSVQAPSY GARAVSSAASVYAGAGGSGSRI SVSRSTSFRGGMGPGGLAAGM AGGLAGMGGIQNKKTMQSLN DRLASYLDRVRSLETENRRLES KIREHLENKGPQVKDWSHYCK TIEDLRAQIFANTVDNACIVLHI DNARLAADDFRVKYETQLAMR QSVENDIHGLRKLETEIEALREE LLFMKNHEEEVKGLQAQIASFR LTVEVDAPKSQDLAKIMADIRA QYDDLAKGNREELDKYWQQF EENTTVVTQSAEVGAA
18622	48990	A	18731	3	423	SLSPVLSLSPDSMSFTTRSTFST NYRSLGSVQAPSYGARPVSSAA SVYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRASYLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNAR

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18623	48991	A	18732	663	2089	AFTTRSTFSTNYRSLG\SVQAPS YGAGPGRAARPASYAGAGGSG SRISVSRSTSFRG\GMGSGGLGQ RELAGG\LAG\MGGIQ\NEKETM A/QALNDR\GLFTWDRVRS LG DRRTRKLGRAKFREHFGRKKG PQ\VR\DW SHYFK\I\EDL\RAQIF RKYLLDNAPHPFLQDLTIAPSL LD*F*EFKY*GQSLAMRQFLWR NDIPLGSAKV\IDDTQYHTDLQ AWRQRFEAPQRRELALSMKKE PRRRKLKGLSSPRI.PSSWG*PVE VRLPPNFQDLRQRSLADIPGN MNELGSKKNPRRKL RQSTWSQ QI*GRAPQLVTTTSLLEVGSLLK TTL/TQKLRRTPGPWKIRPWTS MKKS*KAQLGRNSP*REVGRPP YGPYKMEASF\KRGSL LHP*SQS W/QTRPGAEGTAPQAPRSYEGP C*NIKRSKLEA*DRPPYPPALLE D\GEDF*SLVDPLDSKQLHAKPI QKTTTPPG*VGLGKVVS
18624	48992	A	18733	53	1100	NFRVEAGVRGVQKQETCAFKV LES\GKF\GLALAVAGGVVNSA LYNV DAG\HRAVIFDRFRGVQ\ DIV\VGKGTHF\LI P\WVQETQLS FD\CRSRPRN\VPSQSTG*AKDL QNVQHHTAASLFRACRQPSFPR IFTSIGEDYGWSVCLPSITTEVL KVS VGS L WMLGELITKRE\LV S RQV\SDDL\TERAATFGLILDDV SLTHLTFGK\DFT*AVEAKQVA QQEAEKGQICWLEKAEQQKK\ AAIISAEGDSKAAELIANSLATA GDGLIELRKL/E*AAEDIA YQLS RSRNITYLPTG\QSVLLQ\LPQLR GPPLPCTSRGLDLGPQPRLLNN SLSFLLPTPEINCEIFMIGLK
18625	48993	C	18734	222	458	

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18626	48994	A	18735	2104	2758	QFCPSRQKGCLQKTFRHFVAGH GGDFLFRSPTHAFPCVPLFPLP P/VTIVRPCPPFS*VLSSSPRNSQ NTIPRSPFLSPGTLSPAGSRDP GNPAPGSNTRLGPTAPVSRLAP VDIGFRSTDCWSLQPQVPVNP SRPAPTNPSPRSTPVDPGSNTRL GPTAPVSRLAPV/V*ALGPLTAG PYSPR/CPVNPGRPAPTNPSPR STPVDPGSNTRLGPTAPVSRLA PVDIGFRSTDCWSLQPQVPVNP GSRPAPTNPSPRSTPVDPGTRTT PEGL
18627	48995	A	18736	2	280	AMGFIVAPSLGCF/VGSRFVHG EGLRWYAGLQKPSWHPHVV LGPVWGTLYSAMGYGSYLVW KELGGFTGVSRASEVAPPEPPP GSSVLCFLHA
18628	48996	A	18737	331	972	TAAAAAMAPPWVPAMGFTLAP SLGCFVGSRFVHGEGLRWYAG LQKPSWHPHVVLPVWGTLY SAMG*VG VHWPGDKPGPLQGE AWPRTEDTGQLALNWA WPPIF FGARQMGGALVNLLV\SGAA GHTTLGGRGAS\QWLAARLLYP \YLGLAWPSTTTTQTTCVWRD\ NHGWHGGRRLARVSARPTMG LQLHQAGAITLVMWWPSRFHD HWAC
18629	48997	A	18738	1	603	
18630	48998	A	18739	1	1782	
18631	48999	A	18740	237	876	CESFCWHHFFWDIFNLFVTAPF LVHVDYQGFESVAKKYDVMN DMMSLGIHRVWEGFSCSGKMH PLPGD\QLLDVAGGTGDIAFRFL NYVQSQHQRKQKRLRAQQN LSWEEIAKEYQNEEDSLGGSRV VVC DINKEMLVGKQKALAQQ YRAAHKSGVILDCLWFPPILHPI AQQICQLYLQNTSGIWPSLPYL CYHLLVQATIPSYLDCCNSL

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18632	49000	A	18741	112	995	VLGSLSQEKRAAETHFGFETVS EEKGKKVYQVFESVAKKYDV MNDMMSLGIHRVWKDLLLWK MHPLPGTQLLDVAGGTGDIAFR FLNYVSVPASEKTEEAVKGPTK FILGKNLPKSTRMKKIPWAG/TR VVVCDINKEMLKVGKQKALA\ KDTRAGLAWLL*DAEELPFDD DKFDIYTIAGIRNVTHIDQALQ GSSFGCLKPG\GRFLCLGFSQVE QSP\LSRLYDLYS\SRVIPVLGEV IAGDWKSYQYLVE\SIIRRFPSQE \KFKD\MIEDAGFPQ/V*LTKV*H QGIVAIHSGFKL
18633	49001	A	18742	117	403	
18634	49002	C	18743	62	370	
18635	49003	A	18744	179	527	IQEPPVI**GLHMVHNFTIFVSS YFKFESTFAISFLKVNT/CFFSI* IKSLDEQCVVGKISKHWTGILR EAFTDADNFGIQFPLDLVDKMK AVMKVGICGKNLVKQGNFTMT HSN
18636	49004	A	18745	3	1242	AAPQAGLSPVAIAAAIQLHLHS TQCSSPNTCCLPRTTRATIIYSR WSYHPLGSVP*SP*PFQEAS/AL TLPPACSFYGPLT*FQPKP*GSFP LSQ*MEYTIGLYT*TFHCPGTSR RQIPSSYLNCKDAFLPLL/SNPP QCRPFTGVGLVDVLTGFETNN KYEIKNSFGQRVYFAAEDTDCC TRNCCGSPRPFTLRIIDNMGQE VITLERPLRCSSCCCPCLQEIKS LDEQCVVGKISKYWTGILREAF TDADNFGIQFPLDLVDKMKAV MIGACFLIDRNCSPAMEQSWM ENYFDEMTEIGFRSVITNFSEL KEHVLTHCKEANKNLDKMLDE WLTRKNSVEKTLNELMEVKTI NEKLTIGKISKYWSGFVNDVFT NADNFGIHVPADLDVTVKAAM IGACFLFAFRLGSELHN
18637	49005	B	18746	277	2415	
18638	49006	A	18747	102	196	

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18639	49007	A	18748	897	1656	SNAGLRHVCRTSCQSGRARSCH VGLHTPWVS*VPWHPWGIRWR GDPQKSQRSRKCCVPGGAP/QK GGDPEPQPSLSVSWNLGSCA GFRAVLPRKPQRKVWLFASSA GTAATEPPR**LAWKADSGGDP WQQPQQSARPHA*TWTWRGD GAPPGRVA/QGRGTAGGASAG VSSGRSRGSPQTGFQALQSCLE ASRRPPVVACNPHPAGALPAAQ AGNRATLMTGSC LQMPIMYEE AQLRLEELCTKARLNCQWFL
18640	49008	A	18749	756	884	CLQRLLPFGRRQPSKYRRNRG KSGKG*RPSPVATWQPDYNI
18641	49009	A	18750	1826	2772	RRVLEAMGPSRAAKVLSVCVR SRIGPLICSQRHPATSKTKPQGR PPGEQGTPRDNPRRNNRPARSA TPRGA/PQGAPPRPGEEPNAQT IDKGPPSPPSRGHTRRLARSGNQ PPERHTPAAGGKTRYVRQSVL HRARGGEPVRMPRLPRIAEP APDRVECF*VVQSPAREMHSCQ ADSMCPVW*GRIWRSAGSC*SR SEKILVWIPQSGLQAHACPSEA HKMPGNPRDGGAGICKSSPGG KGERRKVEGGSTTRAGTSRDS VSKRHANTMGEQAQGEKHPRG TV*KTKRRGPKGQTRGTKAPEE ETSREPPCTGPI
18642	49010	A	18751	196	322	
18643	49011	C	18752	189	650	
18644	49012	A	18753	1	53	
18645	49013	A	18754	31	449	
18646	49014	A	18755	1	389	GMPTSTIASCSQDGRVFIWTC DASSNTWSPKLLHKFNDVVWH VSW SITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQQDYFP RRSYRCSHRLIICLVIGNAL
18647	49015	A	18756	1	1041	
18648	49016	B	18757	15	782	

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18649	49017	A	18758	1	1425	EVKKINNAHTIGCNAVSWAPA VVPGLIDHPSGQKPNYIKRFAS GGCDNLIKLVKEEEDGQWKEE QKLEAHSWVRDVAWAPSIG/ LWPPSTIASCSQDGRVFIWTL** CPQAITVPLNCLHKFNDVVLG MLNWGPSQPTSLAVSGGDNKN GTNTVCPTGWLQDSNTLVHLV TYKMPSRLGLGFLWCQLLSPR KYREGTSPVSLWVGEVWFNP DWWGSIRVYHPSPSGSYRTHKP PLNNLSCDTSIIRELLKGKKFLL FVSVPVPSTVLGRKKVSVINT VDTSHEDMIHDAQMDYYGTRL ATCSSDRSVKIFDVRNGGQILIA DLRGWPRASRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
18650	49018	B	18759	323	1583	
18651	49019	A	18760	3	419	PSASSSPARIPAA TRQGRSPRIP PAPSNEAPRLPADREFLEQQPPR FPKPTIQASGADRAVDCGILKL QKS\PARLARPRWPRRPSKRFW SAAGSVEEQPKPPRRRAKSPEQ SPQLSVLPLVTITPQASGASF MKN
18652	49020	A	18761	2	385	WGRGGGRGLLYGRRHFVRRRR RGGRSPGESPALTVT*GAV\PSA AFRESAQPGPRSSEAHISTSPKR TDGGRDS*PGLPRSSLTPSLPRP ASFSTSPGRVSAPHRLPRHS/AG PGLSGSS*PQPYSIPT
18653	49021	A	18762	242	422	

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18654	49022	A	18763	2	992	AREKKQKTRRQNKNIQRQINKT QRICC*QSCLTMTQDFFWPLCQ GHSRGAPCLLVPPGLSLTCAPA QPAARPGVSQLTCAIACHTIQW FPSSCPPSEKNGDTLTVKTPSA SSSPARIPAATRQGRSPRIPPAP SNEASPAPGRPRVPGAA\PPRFP KPTIQASGADRAVDCGILKLQK S\PARLARPRWPRRPSKRFSWA AGSVEEQPKPPKAP/PAKSPEQS PQLSVLPLATITPQAYGASFKE MKNLKTTRRGGRSRWHFFNVIP QAPSLKWGFQTS DASSAEVFH VDRSLASHKMGPRRPRSPLW APPFCEAAAARRQEPGVCIMVE
18655	49023	A	18764	292	348	
18656	49024	A	18765	2	466	LITVVKLLDTMVDTF LQKLVA AGSYQRFTDCYKCFYQLQPAM TQRIYDKFIAQLQTSIREEISDIK EEGNLEAVLNALDKIVEEGKVR KEPA/WQRDTLRRHVQKQEA NQQLADAVLAGRRQVEELQLQ VQAQQQAWQALHREQRELVA VLEPE
18657	49025	A	18766	2	511	FNMAEASSANLGS GCCEKRHE GSSSESVPPTTISR VKLLDTMV DTFLQKLVAAGS/YSTPSLGRK CWS\RLPSGGQSVKQAFSWAAC RLPQGRKEEISDIKEEGNLEAVL NALDKIVEEGKVRKEPAWRPS GIPEKDLH SVMAPYFLQQRDTL RCHVQKQEAENQQLADA
18658	49026	A	18767	224	748	NRPSVGR RAGYHRGGSYQRFT DCYKCFYQLQPA\MTQRIYDK FIAQ\LQTSIREEILFDNQKQEGE PRKLSWNALG*KFVGTKGKVR KEPAWRPSGIPEKDLH SVMAP YFLQQRDTLRRHVQKQEAENQ QLADAVLAGRK\QVEELQLQV QAQQQAWQALHREQRELVA VLEPE
18659	49027	A	18768	1	421	

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18660	49028	A	18769	666	1445	AGITTIEAAKRTIQVLHLQAND AQERA\ERSQREFREERRAREPG LRLK*SFLNRRRIQ\LVEEEL\DR QERLGHLPCKKL*RS*KKLADE SERRY*RLFEN\RALKRLKEKIG TSREIPTQKKLKHICRKEAD\RK YEEV\ARKLGDHLKEDLEPTEVE RA\ELAESRC*EIDEQIRLIDQNL QCLSAEDKYSQKEDKWEEE MKILTNKLREAET\RAEFAERS VAKLKKTIDDLEDKDKCTKEEH LCTQRM LDQTL LDLNEM
18661	49029	A	18770	2	158	SAAPGAVPPPEADSTSAGMSRR PCSCALRPPRSCSASPSAVTAA GRPRPSDSCKEESSTLSVKMKC DFNCNHVHSGCLKLVKPDDIGRL \VSYNP\AYLEGSKDCIKDYER LSCIGSPIVSPRIVQLETESKRLH NKENQHVVQQTNLSTNEIEALET SRLYEDSGYSSFSLSQGLSEHEE GSLLEENFGDSLQSCLLQIQSPD QYPNKNLLPVLHFEEKVVCSTLK KNAKRNPKVDREM\KKEIARG NFR LQNIIGRKMGLECVDILSEL FRGLRHVLATILAQLSDMDLI NVSKVSTTWKKILEDDKGAFQ LYSKAIQRTVENNNKFSP\HAST REYVMFRTPLASVQKSAAQTS KKDAQTKLSNQGDQKGSTYSR HNEFSEVAKTLKKNESLKACIR CNPAKYDCYLQRATCKREGC GFDYCTKCLCNYHTTKDCSDG KLLKASCK\IGPLPGTKSKKNL *RLHVGWHEPAPLQLRPTATPL LLQRQPQRSDSRRAPSTLG

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18662	49030	A	18771	4	1276	RKAASSYVSRMALPIIVKWGG QEYSVTTLSDDTVLDLKQFLK TLTGVLPERQKLLGLKVKGKP AENDVKLGALKLKPNTKIMMM GTREESLEDVLGPPPDNDVNV DFDIEDE/R*FEVENREENLLKIS RRVKEYKVEILNPPREGKKLLV LDVDYTLFDHRSCAETGVELM RPYLHEFLTSA YEDYDIVISA TNMKWIEAKMKVKPLGVIWG KFSEFYSKNTIMFDDIGRNFL MNPQNGLKIRPFMKAHLNRDK DKELLKLTQYLKEIAKLDDFLD LNHKYWERPRVRCHIFHGKED RYDPCPMGACSCKTVCCTNLA LPALPLGSMKNGQPCRNVIQK GYALTVINSGPQQGLFVRILLG LFIRDFFPAGCGARPFWNEGLM AYFQRRTLVGVMLVLSSSKSFK
18663	49031	C	18772	113	257	
18664	49032	A	18773	143	330	HHGPVPFPRGLIS*HSLHPCPCPT PGGKNVFFCEYFLKLAGIETT NCSADKRGKKVCCCLIPR
18665	49033	A	18774	3	432	
18666	49034	C	18775	112	192	
18667	49035	A	18776	3	1015	SSRPVRPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLL\SKYD PQKE\AELRTW\IEGLTGLSIGPD FQKG\LKDG\TIL\CTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNP\VDLFEAN DLF\ESGNMTQVQVSLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCVIG\L QMGT\NKCASQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCASQVG\MTA\PGTRRHI YEYQAGNPTSCDNFSM\SLQ\M GYTQGAQTQSGQVF\GPGRPDI *TPSTCPQGTI\ADGAPSGTGDC PDPGEVPEYPPYYQEEAGY
18668	49036	A	18777	2	110	
18669	49037	A	18778	74	289	

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18670	49038	A	18779	138	2039	GAAMAAAGRLPSSWALFSPLL AGVALLGVGPVPARALHNVTA ELFGAEA WGTAAFGDLNSDK QTDLFV/LAGKK*LNRLFGRPE CTRILNPK*RYLSRITVH**QV*S LGAYDGDSDQMDVLLTYLPKNY AK\MN*ELLSSGDKIKH*ILTI*P YSIGL/LQDEPLIMDFNGDLIPDI FGITNESNQPIILLGGD/CYHGI QH*PLQVKCEFHI/PHAFIDLTE DFTADLFGATLNGTTSTFQFEI WENLDGNFSVSTILEKPQNM VVGQSAFADFDDGDGHMGSFTC QGCGR*K/CAKRVPSYLVRS GMKQWVPVLQDFSNGTLWGFVP FVDEQQPTEIPIITLHIGDYNM DGYPDALVILKNTSGSNQQAFL LENVPCNNASCEEARMFKVY WGADRPKSN/SKGAMVATFFDI YEDGILDIVVLSKGYTKNDFAI HTLKNNFEADAYFVKVIVLSGL S\SND CPRKITPFGVNQPGTLYH VYNCRCKWVSEK WIRWPNSAQ SAHLALQLPYNVLGFRVGSANF LDHL\SLGIPRPSWRKIFYGKQE WTAIIPNSQLIVIPYPHNVPK LGVPCILYTKLILFWLTALIR CLCFQSLAINWHFTLGREKKAG WIEEKRTKRAHRFPFWAMW
18671	49039	A	18780	1	966	
18672	49040	A	18781	1	1035	RPPFPVPGVQKCPLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRPSVASGREM VVLSVPAEVTVILLDI\EGTTTP IAFVKG/DILFPYIERKMLK\EYL QTHWEEEEFQ\QDVSLFEGNK A\EEDAHLDGAVPIPGKHLGIG V\DDLQQMI\QAVVDNVCWQM SLDRKTTALK\QLQGH\MWRAA FTAGRMK\AEFFADVPA\VRK WREAG\MKVYIYSSGSVEAQKL LFGHSTEGDILELV\DGHF\DTKI GHKRRRVKVTRK\IADSIGCST\ NKHVFWTDVTSRRASAGLRE AGCCTLAVV\VRPG\NAGINR*L RKTTYSLITSFQWNYLPSST

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18673	49041	A	18782	1	528	DNELLDYEDDEVETAAGGSMS/ EAPAKKDVKGSYFSIHSSGFRD FLLKPELLRAIVDCGFEH\PSEV\ QHECIPQAILGMDFLCQAKSGM GKTAVFVLATLQQLEPVTGQV SVLVMCHTRELAFQTR*KTRPF WNVTVCPSGEDTRVGKETLL PPPLTAPTPWLPSFASPLLNP
18674	49042	A	18783	207	309	
18675	49043	A	18784	85	348	PPHSALLPFPPTPLPSSQLEIFVD DETKLTLHGLQQYYVKLKDNE KNRKLFDLLDVLEFNQVS*TSS RGM SIGALQL*QKPGY*VHFY
18676	49044	A	18785	1	930	CCCRHTRSPCLVMAENDVDNE LLDYEDDEVETAAGGDGAEAP AKKDVKGSYVSIHSSGFRDFLL KPELLRAIVDCGFEHPSEVQHE CIPQAILGMDVLCQAKSGSGER QAVFVLATLQHLEPVTGQGV CAG*CCHTRELAFQISKEYERFS KYPNVKVAVFF\GGLSIKKDE EVLKKNCPAYPSVGTGPRJLA\L ARNKSLNLKHIKHFILDECCKM LAEQLDMRRDVQE/IFFRMTPH EKQVM\MFSATLSKEIRPVCRK FMQDVNTLLPSLPPLPARCLLPF LALFLRLPCHSSAKKAACAQLG
18677	49045	A	18786	96	1618	LFTPCFHLFCENPSRSPFPSSPAG PVMAENDVDNEALLDYER*MR WETAAGGDGAEAPAKKDVKG SYVS/LSHSSGFRDFL\LKPELLR A\VD\CGFEHPSEVQHECIPQAI LGMDVLCQKGSG\MGKTAVF VLATLQQLEPVTGQVSVLVMC HTRELAFQISKE\YERFSKYPN VKVAVFF\GGLSIKKDEEVLK/R RNCPHI\VG\TPGRILS/LWVRN KSLNLKHIKHFILDECCKMLEQ LDMRRDVQEIFRMTPEKQV\ MMFQCYLGAKEIRPVCRKF\M QDPMEIFR/VDDTKLTLHGLQ Q\YYVVKLKDMEKN\RKLFDLL DVLEFN\QVVIFVKSQ\RCIAL APAY*WEQNFPAA\IA\HRGDAP RKERLS\R*SSSFKDFPTNEILIG YPTLFGRRHGTSEAGETIAF*FM NMP*GILKTLPCR\VGPEQGRF GHPRGL\AITFVSDEE*LPRSCD DVQGSALRVKFSELPDEIGHLP PTLEQDTGRRLAHFGNVDRFL
18678	49046	A	18787	1	363	

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18679	49047	A	18788	78	714	GTTEGKRQEAVGYLCVLPPLTTL PLVTRLPPQVADTMLPPMALPS VSWMLLSCLILLCQVQQAETQ KELSPRISCPKGSKAYGSPCYA LFLSPKSWNDADLAC\QKRPSE KLVSVLGAEGSFASLLA\RSIS NSYSYIWIGLA\HDPKKG\SEPDG DG*EWSSTDVMNYFAWEKNPS TILNPGHCGSLSRSTGFLKWKD YNCDALPYVCKFKD
18680	49048	A	18789	52	186	QSEVHHGIISYTTGQGENLSEPI WKSWSQRSQDL*QENHPEIYSLT
18681	49049	A	18790	666	2732	KQLIKMCYFILLLLILSSHIGKD KAIDKNGILVQYWQE*KLVEPF *KAIWPPCMETLNVDTPFPQPV CLGIYPNE*KLSK/CFKP*APKV YFHGCL*Y*NHWEPTETIPPVK GWIK*ILF
18682	49050	A	18791	112	340	
18683	49051	A	18792	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSH\SPMAGGLAG MGGIQNEKETMQSLRDLASY LDRVRGLETENWKLESKIQEH
18684	49052	A	18793	1	994	APSYRA/RLVRSVASVYAGPGS SGSRISMSRSTSFQGGGLGSRSM AA/GMAGGLAGMGGIQNEKET MQSLNDRLASYLDRVRSLEMG NWKLESKIWEHLEKKGPPQVRD WGHYFKTIEEDLTQIFTSTVDN TCIILQIDNAHLAADDFRVKYE TEPATCQSVENDIHGLHKVIDD TSVTQLQLETEIEAL\KEALLFL\ KKNHEEES/WRHTVQALEIDLD WMKNLEASLENSLK/EGVEAC YTLQMEQLNGILLHLESELAQT WAEGQGGQAQEQALPNIKVKL EAEIATYRRLLEDGEDFNFGDA LDSSNSTQTIQKTPTC/RTVDGK VVSETNDTKVL
18685	49053	A	18794	3	377	
18686	49054	B	18795	54	136	
18687	49055	A	18796	149	419	

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18688	49056	A	18797	83	1402	AEKAGGKKGEAPSYRA/RLVRS VASVYAGPGSSGSRISMSRSTSF QGGLGSRSMAG/GMAGGLAG MGGIQNEKETMQSLNDRASY LDRVRSLEMGNWKLESKIWEH LEKKGPPQVRDWGHYFKTIEED LTQIFTSTVDNTCILQIDNAHL AADDFRVKYETEPATCQSVEN DIHGLHKVIDDTSVTQLQLETEI EAL\KEALLFL\KKNHGEEIKGL SRRQIASSGVDPWRVDAPKSSG PSPKIMGRHPGPKYDEL\ARKR TREE\LAKEYSSQ\QIEEST/TQLV TNTSLL/GGLELAETNLHRS*TY KSRSLDSTLDSIEKS*KAQAW KKQPLKGSWKAPLRPLPDWSK LQTGILACTFESRAGNKTRARG TSAPGPQEL*GPLLKHQKVKAG GLRSPTLPARLLEDAEAL*SLV DPLDSKQLPCNTIQKTTTPPG*V
18689	49057	C	18798	140	283	
18690	49058	A	18799	2	783	VVQFARREKPSSSKVSQRHPCT EAVREVLHG\NQRKSPQRSWET VELQISLKNYDPQEGQSAFSGT RQALSPLPRP\KFSCVCPGGTQQ H\CDEA\KARGISPPHGTFEA* KNLNKE*KNWSKKAGPRKY*L RFFGPQKSLDQSKIPPNPSGPGF K*RAGK\FFPWFTHNENMGG PKLDEGEVPPIQVFQMKERCLC L\AVAV\GHV\KMTD\DELVYNI HLGCQLSWVSLLEKNW\QNV\ RALYIKSTHGQSPKRLIFKAHFE
18691	49059	C	18800	239	555	

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18692	49060	A	18801	401	3014	TRASSTMSKSFQQSSLSRDSQG HGRDLSAAGIGLLAAATQSLSM PASLGRMNQGTARLASLMNLG MSSLLNQGAHSALSSASTSSH NSQSIFNIGSRGPLPLSSQHRGD ADQASNMLASFGLSARDSDELS RYPSDTITPENLRPILLQLKRRR TEEGPTLSYGRDGRSATREPPY RVPRDDWEEKRHFRRDSFDDR GPSLNPVLDYDHGSRSEQESGY DRMDYEDDRLRDGERCRDSSF FGETSHNYHKFDSEYERMGRG PGPLQERSLFEKKRGAPPSSNIE DFHGLLPKGYPHLCSICDLPVH SNKEWSQHINGASHSRRCQLLL EIYPEWNPNDTGTMTGDPFM LQQSTNPAPGILGPPPSFHLGG PAVGPRGNLGAGGNLQGP MQKGRVETSR\VV\HIMGFSTE GKTLRYQLLQLVEPFGVHFKFI *FLNKNLLRAFIEMATTEDCFK AAV\DYTTTPA\LVF\GKPV HLSQYKRIKKPEGKPDQKFDQ KQELGRVIHLSNLPHSGYSDSA VLKLAEPYGIKNIYILMRMKS QAFIEMETREDAMAMVD\HCL KKALWFQGRVCVVDLSEKYK KLVLRIPNRGIDLLKKDKSRKR SYSPDGKESPSDKKSKTDGSQE AERSTEGKEQEESGEDGEKD TKDDQTEQEPNMLLESEDELLV DEEEAAALL\ESGQFSGETSTD
18693	49061	A	18802	3	1013	NCRAAWRAKLEGCLSLRRNAC QCFLIWTQTPDREQSYSLDQLP REVLNQEEKSISIWDIYLHLEM GNGLSDQTSILSNLPSFQSFHIVI \GLDCAWKRQLSYTRLQFQLN L*NT\VPYPKGFNTEKI*/RVTLG NSKTV\TFHF\WDVGGQEKL LPWKS YTRCTDGIVFVVDSDV ERMEEAKTELHKITRISANRGV PVLIVAN\KQDLRNSLSLS\EIEK LLAMGELSSSTPWHLQPTCAIIG DGLKEGLEKL\HDM\IKRRKML RPTRKRKDEYQFPNIICVGVGF LWSDFDKNRRVSTAGVCLSAPP WMLLKLCFVEQFRCPTRVALW KMSKCSAS
18694	49062	A	18803	3	1103	
18695	49063	B	18804	34	734	
18696	49064	A	18805	1	1741	

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18697	49065	A	18806	6460	6635	RTSTERSHLKTRYQRTSCSSNR* LNSSSSKTSFRCSLTTSLFWRHT IFNMLLINRRL
18698	49066	A	18807	5567	5853	IGILEA*LLRNLPNDSIKALVDA *YKSLLSAVERCSFMVLFGEPM NKPLAILRIQSGVNRPPVISIM ALIGPLVTPSASTYSGVTNADLS SATK
18699	49067	A	18808	664	992	SCADIHGYHRGNSSNNDNLIP KQTNRDCLNNGHQNHSCNG/D *PQPQR**QLTLQNLMQHQ*KQ QYPLPQHQQQE*RTR
18700	49068	A	18809	3	1698	
18701	49069	B	18810	227	883	
18702	49070	A	18811	180	373	PDTLRSILPMLLEQLFCRTFGLL SP**RDTSLHLGHKTEQHT*LV MGSWFYLLASQQPRCCYAC
18703	49071	A	18812	495	701	
18704	49072	A	18813	138	418	AYRLLLCLVYSEGFYMHLEFQ NRLYHQLVF*GRLWHFWKSIK RFSIY*FFWYRW*YICKLNKGR LQDVIGVINT*CHFLS*GLH*TIP GIHRL
18705	49073	C	18814	62	175	
18706	49074	A	18815	644	828	
18707	49075	A	18816	1	1107	
18708	49076	B	18817	84	342	
18709	49077	A	18818	3	1399	
18710	49078	B	18819	1	1377	
18711	49079	A	18820	1	546	
18712	49080	A	18821	855	1099	VTLYSEYQHPSVREYGLYLTSH RIEPLCVHRTL*PVLLSMQPSV LEYEQQGYEAEY*LQEECHH QRTSSL*DLLKQLLQ
18713	49081	A	18822	1	1680	
18714	49082	A	18823	1	3951	
18715	49083	A	18824	2	6446	
18716	49084	A	18825	2497	21785	SSPYPFTKQSSTNNFVFDGNELF NSRDRLSQRIFYILQSSVHLINR Q/LEGYVQHHLNLAIEI*HHGLG KDAYIAAMYNNDDGATFQMEI GGIHTNAALAAGDKLQCIWRY LDVNGNAPAAENEFVVSIEG FGTSNFSVKCKGMLPGKFIGCD AFYGKYLQTDGPIKQVDSVKW FTNLTVSGSGRKQLGQRKYPQ VVMGMGMTSGFDDGYNLTPE RQVKMAYGLGYRDWWTTYIG MSHYWKGLTAFQDKETGELI
18717	49085	A	18826	31	479	

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18718	49086	A	18827	255	1002	SQFSLSQVLVDSAEEGSLAAAA ELAAQKREQRLRKFRELHLMR NEARKLHHQEVEEDKRLKLP ANWEAKKARLEWELKEEEKK KECAARGEDYEKVKLLEISAED AERWERKKKRKNPD LGF\SDY AAAQLRQYHPV*PKQIKP\ DME TY\ERLREKHG\EEFFPTSNSLLH G\THVAFHRGKFDRVVL RSGKN QFEKRD/KF*ARRRPYND DADI D\Y\INERNAQFNKKAERFY\GK YTAEIKQNLERGTA V
18719	49087	C	18828	91	225	
18720	49088	A	18829	3	212	
18721	49089	A	18830	88	239	
18722	49090	A	18831	865	1898	QQQQQQQHRRYPRRRSPRAWC SHPRSPLLFLPSLAPWPDQLTEE QIAEFKEAFSLFDKDG\ DGTITT KEL\GTVM\ RSLGQEPNKKLEL\ QDMINESGMLMG\NGTHLTFPR IF*LMMARKMKD TDSEEGN/LR EAFRVFAKDGNGYISAAELR\H VMTNLGEKTTRF/KKVDEMIRE A\ DIDGDGQVNYEEFVQMMTG KMEDLTFQLPFSPPLEESNWNL LLTFLQKKEKKKKVHLFHSCFL YSKTECQKYLLVHTHQNLHVL VGGPCPLKDQATHQFYNTCT NLNDNGLLKRSILLMINTLFG L ASFFHACSFDDWSTSQGLWYL KLENGKNQISKPIPNGLVHFV
18723	49091	A	18832	1	330	WVVLKNCVGVGLLIAT* MWFI SNKYL VQRQSRDYDVEWGYAF DVHLNAFYPLL VILHFIQLFFIN PLPFLKNTVILLYPFAPLILLYGL SLALGWNFTHTLCSFYKYRVK
18724	49092	A	18833	1	534	VPSNSVNSLVQGNGLNSRDA ARH/TAGAKRYKYLRRLFRFRQ MDFEFAAWQMLYLFTSPQRVY RNFHYRKQTKDQWARD DPAFL VLLSIWLCVSTIGFGFVLDMGF FETIKLLLWVVLIDCVGVGLLIA TLM/WHCHF WKKQVILLYPFAP LILLYGLSLALGWNFTHTLCSF YKYRVK
18725	49093	C	18834	295	570	

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18726	49094	A	18835	418	1567	SFTLKNCVLQVRVSSILPSNTAEV DFPSWTTQSDWQQTRAQVLLQ ARARAALRLVLIILRHDGASPP MRTRLSPATLATGSGASEAPV SGDRKPAATTSGGPRRKMLPST SVNSLVQGNVLSNRDAARHT AGAKRYKYLR\RLFRFRQMDFE FAAWQ\MLYLL\TSP*RVYRNF H\YRKQTKDQWAR\DDPAFLGF PFKYSGFCVSTIGFG\FVLDMG\ FFETIKLLLWVGLID\CVGVGLL IATL\MW\FISNKYL\VKRQS\RD YDVEWGYAF\DVHLNAFYPLL VILHFIQLFFINHVNLTDTF\IGY LVGNTL\WL\VAVGYYILR*LSL GYSVGLLFFSSIAHF*KNTVILL YPFA/PL*FLPPTGFPLALGWNF THTLCSFYKYRVK
18727	49095	A	18836	1	888	MPGLLLLRGSQNLKQQAIEILCG LGLALVISAVKPLSKKFMLPNP TSMKPESDGIYSINLKRTWEKL LLAGHAIVVIENSADVSVISSRN TGQKAMLKFAAATGATPIAGH FTPGTF/TNQIQAAYWEPRLLV VSDPRADHQSLTEASCVNPPAI ALCNTDSPLCH/VDIAITCANNKG APSVGQMW*MLAWEVLHMRG TISCN/SPWEVMSNLYFYRDPEE TEKEEQAAAEKAVTKKEFQ GK WTVSAPEFTVTQPEVADWSEG MQICNLGKAQQGQLSSDAEDD FWSLESLDGYSHVTFTFR
18728	49096	A	18837	74	848	REIFINVRSLLMACFVKEEDVL KFLAARNP/HVGGTNLDFQME QYIYIRKSDGIYIIRLKRTWEKL LLAARAIVAIENPADVSVISSRN TGQRAVLKFAAATGATPIAGRF TPGTFTNQIQAAFRE\PRLLVVT DPRADHQPLTEASYVNLPTIAL CNTDSPLRYVDIAIPCNNKG AH SVGLMWWMMLAREVLRMRGTI SREHPWEVMPDLYFYRDPEEIE KEEQAAAEKAVTKKEEFQGEWT APAPEFTATQPEVADWSEG
18729	49097	A	18838	72	528	DEACGVCCYSPGASPMPP*GRT RKEGRTAGKVRPKERP KTPVN\ KSGGQGP KRKNWSKRQKFRDK L\NN\LVLFDKA\TYDKLCKEVP N\YKLITPSLWSPERL\KIRGLA KGKPFQEAP*VKGLI/RNLVSKH RAPSNTFGNYQGWEDAPSL

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18730	49098	B	18839	6	125	
18731	49099	B	18840	249	291	
18732	49100	A	18841	128	669	RPGHAQTLGSPSLALGMAGQF RSYVWDPLLILSQIVLMQTVYY GSLGLWLA\VVDGLLRISPSLD QMFDAEILGFS/TPFQGRLSMM SFILNALTALGFAVISSGEEKQ CLDFTVTVHFFHLLGLLGSNSS PFSPSGG*TLVGLGPKPVVALH SLAVIGEYLCMRTELKEIPLNSA
18733	49101	A	18842	1	818	MAELTV\MRFHTEPQGSEGLRLP RISGSKPKQMHVTWLEPLENGI CNGNTGNAQLLIPPGVIFHKYP SHYVTAMLKSLKWPLQTELTS SSGQALWGLVGGGSPHRQAST EKL FSEKVPKTAENFPCSELSCF HGENGFGL*GVPCFHRLFPRVY AVRGGDFHTAINGT\GGKSHPM GKKFEG*ETSSLKHTG\PGDLVP WQNAGPNTNGSPVFLTSTCTAQ ELSGLDGKPCGVLA\KVE\GM NIVEAMER\FGSR\NGKTSKKITI A\DCGTTPNKV
18734	49102	A	18843	4	454	
18735	49103	A	18844	1	978	MRWACDFTKLLSSTWTLIQYPE NAMIIARWALLADCPEKTKAL RTTEDGIVDAANFEQFLQERIK VNGKVGNLGGGVVTIEKSKSKI TVTSKG\PFNSM*I*GSASSFVEK KRLLF*KLLSSTWTLIQYPENA MIIARWALLADCPEKTKALRTT EDGIVDAANFEQFLQERIKVNG KVGNLGGGVVTIEKSKSKITVT SKGHFQFYVNLRI SF LICGKEKA VGILEEIVLNLLIIFSSIDILTVKG TCSGCERGFFLEIYDEVEDSSYD NHLKDDDPKREGPGA EQALST PPCCPLEKRPINDQTLIISWSGST NVIEEAGRHSVVQEGWGALGV LRTTLPSLPQITGGAGFVGSHLT DKLMMDGHEVTVDNFFTGR KRNVEHWIGHENFELINH DVVE PLYIEGRAENQLSHTVPGPVDL SDRIVNGYFLSL

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18736	49104	A	18845	167	1440	RDIWLSASAAAMVPVRKLV/AE GGQKTKQVLRFTLGCTHPIDG IIDAANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG\ PFNSM*I*GSASSFVEKKRLLF *KAENLSSKNWNKTRMPTFTTL TQVAPNPITGYTSKGKKISTLKR YLAFLRCCHGAREKACGEGG QKTKQVLRFTLGCTHPIDGIID AANFEQFLQERIKVNGKVGNL GGGVVTIEKSKSKITVTSKGHF QFYVNLRIJSLICGKEKAVGILE EIVLNLHIFSSIDILTVKGTCCSSC ERGFLEICDEVEDSSYDNHLK DEDPKREECRKRDAYAPLKDQ GNAEKRRHNVRKSWPLLSAKL LKIRTNLTGTEEAELHANHIQQ VPIKCLSYKLTERKNGTQKHLH YALILHVKCDRRETSKFTKFIG THPLTALFVPRAWDGPPSALPE SELAVFLVAYEGNTLLHLFLSG AEQRGNSSLKERAGRARFSHQ KLNEQTIPPDNLTKSSVDLQSSF SAVHPNSQPTVWVDMPAHPLS QYLVPAKRTVLPWIWYGNPCPD VIFGSLSDSKLSEGKEFALPLKF
18737	49105	C	18846	713	831	
18738	49106	A	18847	2	303	
18739	49107	A	18848	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSRWPWF G
18740	49108	A	18849	229	359	MKWVYCSVTGMGKGQHRMP\ SKG*GWVQRYNRDGIPSPRVLE LF

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18741	49109	A	18850	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEG REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPAPTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRI SYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
18742	49110	A	18851	231	416	
18743	49111	B	18852	184	594	

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18744	49112	A	18853	247	2296	PVYLSIFMSCVGENGGSHIENW HSILRNLVNASYTKLQDIKGQ FWNDDDDSEGDNESEELYGVQ GSCAADLYRHPQLDADIEAVK EIYSENSVSIREYGTIDDVDIAL HINISFLADEEVSTAWKVL RTE PIVLRRLRFFLSQYLDGPDPSIE VFQPSNKEGFGLGLQLKKILGM FTSQQWKHL\SNDFLKTQQEKR HSWFK\ASGVTIKKFRAGLQHSF SPIPKS\PSFPY3*Q\DSMAGKGK LG\PELRVGRMLMNRISCTMK NPKVEVFGYPPSPQAGLLCPQH VGLPPPARTSPLVSGHCKNIPTL EYGFLVQIMKYAEQRIPTLNEY CVVCDEQHV FQNGSMLKPAVC TRELCVFSFYTLG\VMGAAEE VATGAEVVDLLVAMCRAALES PRKSIIFEPYPSVVDPTDPKTLAF NP\KKKNYE\RLQKAL\DSVMS\N REMTQGS\YLEIKKQMDKVWIP LAHPLLQWISSNRSHIVKLPL SRQLKFMHTSHQFLLLSSPPAK EARFRTAKKLYGSTFAFHGSHI ENWHSIL/RGNGLVQWHSYTK LQLHGAAYGKGIYLSPISSISFG YSGMGKGQHRMPKDEL VQR YNRMNTIPQTRSIQSRFLQSRN LNCIALC\EVITSKDLQK\HGEH LGCCPVFRPMSCTRFLPL*YED G\QVGDAQHYIPHGPRVHERE
18745	49113	C	18854	122	486	
18746	49114	A	18855	1	535	KNAAGNFISPT/ERLSPNAWKTI TDIVLNGTAFVTFLSITTIYAET GSGFVVPSASAKAGVEAMSKS LAAEWGKYGMRFNVIQPGPIK TKGAFSRLDPTGTFEKEMIGRIP CGR LGTVEELANLAAFLCSDY ASWINGAVIKFDGGEEVLISGEF NDLRKVTKEQWDTIEELIRKTK
18747	49115	A	18856	3	356	
18748	49116	A	18857	1	1581	

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18749	49117	A	18858	2	1242	RRLGSPRPPIRRPRQRFPREL CSFCPAPCGPTACGGFRPEFWRI NMKLPAKVFFTLGSRLPCGLAP RRFFSYGTKILYQNTALQSKFF SPLQKAMLPPNSFQGGKVAFIG GGTGLGK\GMTTLLSSLGAQCV IASRK\MDVLKATAEQISFSNW EIKVHAIQCDVRDPDMVQNTV SELIKVAGHPNIVINNAAGNFIS PTERLSP*CWKNQ\ITNIV*NGT AFVTLEMKGHLIKAQKGAFL\ SITTIYA\ETGSGFCRYPASAAQ SRVWEAHGASLLQLEWG*NM GLRIPVDSNQGPIKTK\GALYPS GPPTGTGFEKKMIGQKFPCGSP WGLVEELRKSLPAFLCSDYA\S WINGAVIKFD\GGEEVL\SGDF\ NDLRKVT\KEQWDTIEELIRKT KRFLRPLWPSSWLQKRE
18750	49118	A	18859	8	432	NSKLPPVVTSSQMRFRMY/DPQT DQHMKI\FPEQLPLDEFLQKTDP KDPANYILHAVLVHSGDNHGG HYVVYLNPKGDGKWCKFDDD VVSRICTKEEAIEHNYGGHDDD LSVRHCTNAYMLVYIRESKLSE VLQAVTDHDIPQQL
18751	49119	A	18860	1	211	
18752	49120	A	18861	1	242	
18753	49121	A	18862	3	733	LVHSRDNHGRHYVVYLNPKGD GKWCKFDDDDVVS/QLVERL*EE KRINAQKVDR\RQEVHLYMQA QVASEDQFCGHQGNMYDEE KVKYTVFKVLKNSSLAEFVQN LSQIMEFPQDQIQLWPMQARSN GTRPAMLDNEADGNKAMIEV SDNENSWTIFLETVDLELAASG VTLPKFDKAHDVMFFLKMYDP KMRS�NYCGHIYTPISCEIRDLL PVMCNRAGFIQDTSILYEEVK LNLTERIQD
18754	49122	A	18863	261	659	KHLFYLFIT*EITLYPDKHGCVR DLLEECKKAVELGEKASGKLR LLEIVSYKIIGVHQEDELLECLS PATSRTRFRIEIIPLDLLEECKKA VELGEKASGKRLLEIVSYKIIG VHQEDELLECLSPATSRTRF
18755	49123	A	18864	107	407	CVFFADTSWRSEATFQFTVERF SRLSESVLSPPCFVRNLPWKIM VMPRFYPDRPHQK\SVGFFLQR NAESDSTEDSLNDATTNPHIVA FHYWKPNNLSLV

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18756	49124	A	18865	2	3698	YVRVSLPPPPPAAGRPGAAVAD DAREEEEEAAAPPPPPPPRLAA ARPPGSQPRPPAAGEAQAAD MNHQQQQQQQKAGEQQLSEPE DMEMEAGDTDDPPRITQNPVIN GNVALSDGHNTAEEDMEDDTS WRSEATFQFTVERFSRLSESVLS PPCFVRNLPWKIMVMPRFYPDR PHQK\SVGFFLQ\CNAESDSTSW SCHAQAVLKIINYRDDEKSFSR RISHLFFHKENDWGFNFMAW SEVTDPEKGFIDDD
18757	49125	A	18866	16	450	
18758	49126	A	18867	3	26	QSGHSMDMRVPAQLLGLLLLR LRGARCDIQMTQSPSSLSASVG DRVITICRASLDISRWLAWFQL KPG\EVPKLLIYAASLTQSGVPS RFSGSGSGTDFTLTISLQSEDIA MYQCQQYNNW/SSAPYTFGPAG TKVEIKTKLWAA\PSVLHLPGPS DEAVENLGTAFCCLALLEKTSN PQSRPKSTSGRVD\NALPNGGK LPQGECSQKQD*TAWT
18759	49127	A	18868	3	694	
18760	49128	A	18869	47	1712	FPTKMAAVGRVGSFGSSPPGLS STYTGGPLGNEIASGNNGGAAAG DDEDGQNLWSCILSEVSTRSR\S KLPAG*NVLLLGEDGAGKTSLI RKIQGIEEYKKGRGLELYLN VHE*MTGNDQTRCN\WILDG DLYHKGLLKFSLDVSLKDTL VMLVVDMSKPWTALDSLQKW ASVVREHVDKLIPPEEMKQM EQKLIREF\QEYVERGEDFPASP QRRNTASQEDKDDSVVLPLGA DTLTHNLGIPVLVCTKCAIS VLEKEHDYRDEHDFQSHIRK FCLRYGAALIYTSVKENKNIDL VYKYIVQKLYGFPYKIPAVVVE KDAVFIPAGWDNDKKIG\ILHVE NFQTFKRQEDNFWKDITKPPV RKFFVHEKEIMAEDD\QVFLMKV \QSLLSKSKPP/TTEAGRPVDA\S PKESQGGSPNTKIESVSS*CCQ ACHPIPCWGQKKIDPNMESWE LTSGRAFLGKFSFNSFV*VKRL GSPRRPLVVS GG*PCRVGLGGG \SSG\LPP\STKKVQAYKPVLDV\ HAELDRINTR*PV\TVS\PTTPTS\IP

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18761	49129	A	18870	3	885	LVCLVRELLGPRRFFLKVFFLPT FPG\VPAPVLTATLPFFHPEGRL YQVE\YAFKA\I*PGGPLPSLAV RGK\DWAVIV\TQKKST*PNYL DSS\TVTSLFPR*LKNIW\CVMT GMTS*PADSQV\QAR\YEA\AN WKIQSMGYEIPVD\MLCKKNCP IFLQVYHTEMLKMKASLRC\CM IFNWVIDEEQGPSRYIRC\DPA\G YYCGV*KPTASGS*TKLRSTGF LEKKKCKKKFD\WTF*TRQWET A\TLPCLTVPQLDFKTFQEIEV GVVTVENPKFRILT\EAIDAQL VAPSKRRD
18762	49130	A	18871	1	471	
18763	49131	A	18872	1	1524	
18764	49132	A	18873	2	719	RPQRAGPVRRAGVMALLDLAL EGMAVFGFVLFLVLWLMHFM AIIYTRLHLNKKATDKQPYSKL PGVSLLKPLKGVDPNLINLET FFELDYPKPLFFSVAPMKRIEKT QM**P*CSTY*YEVLLCVQDHD DPAIDVCKLLGKYPNV DARLF IGGKKVGINPKINNLMPGYEVA KYDLIWICDSGIRGTMEMPMSL EQSYDPNVRDPIYRNNGDADG QHLVLHDFYQQGSGPKCSLINA
18765	49133	A	18874	200	370	
18766	49134	B	18875	323	448	
18767	49135	A	18876	2	421	FVGPGPGDPPPSETHKL VVVGG GGVGKSALTIQFIQ/ILDTAGQE EFGAMREQYMRAGHGFLLVFA INDRQSFNEVGKLF TQILRVKD RDDFPVVLVGNKADLESQRQV PRSEASAFGASHHVAYFEASAK LRLNVDEAFE
18768	49136	A	18877	2	236	
18769	49137	A	18878	1	763	MTPHSALRARGKGGGTGGGSE GSSSGGDMSSGAASGTGRGRPR GGGPGPGDPPPSETHKL VVVGG GGVGKSALTIQFIQSYFVSDYD PTIEDSYTKICSVDGIPARLDILD PAG\QEEFGAMREQYMRAG/HT GFLLVFAINDRQEFSTRWGKLF HADFCGFKDRD\DFP\VVLVGN KAD\LESQRQVPRSEASAFGAS\ HHVAYF\EPSAKMRF\NVDEGF* RSWCGVVREIPRNKELPPSPPK CPPGRMGGGCPCVLL

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18770	49138	A	18879	2	403	RFLARRTNSTFNQVVLKRLFM RTNRPPLSLSRMIRKMKLPGRE NKTAVVVGTITDDVRVQEV PKLVCALRVTSRARSRLRAGGK ILTF/DEVYRHFHGKAPGTPH SHTKPYVRSKGRKFERARGRR ASRGYKN
18771	49139	A	18880	1	1006	PKLR*PEPSRNQV!LTRFQIA VHF/LLSRLQLFFPRPARSRA FLSRKPKPGPGKKPMALIVE FIGELPTGVHARPPSHVETLC NTFSSQIEWHNLRTDRKGN AKSALALIGTDTLAGDNCQL LISGADEQEAHQRLSQWLR DEFPHCDAPLAEVKSD ELEPLPVSLTNLNPQIIRAR TVYSGRAGGIQTPISSLDL NALGNLPAAGVDAEQSALEN GLTLVLKNIEFRLLSDSGAT SAILEAHRSLAGDTSRLRE HLLPVGQCANAASS TNHPFVTKKRQQCFVFRQRL ANGRNDSGWQITHAFWFRFH QH SRIMKYLYGFTARLKEH QPKLR
18772	49140	A	18881	1	716	VCCEFCRAERRHHGEWTIRH NKDRKGGSGARDPKEPGFLL* RC CVKLYRFGSGPEEPNSNI QPRLWLKRLFMSVRTNRP PSVPFSRDESGKMKASLARG KQDRPVVGGPLT*LMLRVSG RPVKTERYVALRRGPSPGPQA AFLQGQGGKIPSLFDQAWPL GLPLKGLLALVPGSSGSLGK GAREGGTRQFSAPKETPQK PHQNPYVR\SKGRKFERARG PTGPARGYKKLTLSYSLSL
18773	49141	A	18882	3	168	
18774	49142	A	18883	23	2669	
18775	49143	A	18884	279	396	
18776	49144	C	18885	960	1250	
18777	49145	A	18886	52	925	EVLEPRLGVFSNGCFQGLSS VMALGLKCFRMVHPTFRNYLA ASIRPVSEVTLKTVHERQHGH RQYMAYSAVPVRHFATKKAKA GKQSQTRVNINAALVEDIIN LEEVNEEMKSVIEALQG*FQ* GLSI*GPHQDPIDKIAVVTA* REALL*TRFSQISMKSPQLNFG *IWASFPECTAAAIKAIRESG MNLNPEV\EGTLIRVPHSPK* PESTEKCVKLGQTEHQQGPKT LLREGFRTQLNEQAGRNPKD/ NSLQEDTIRLTEKQISQMADD TVAELYRHLAVKT KELLG

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18778	49146	A	18887	2	389	DSGSHCHAPPTTARRAFPIPGS KSNMATLKDQLIYNLLKEEHTP QNKITAVRVGADGMACAITIL M/KDYNVTANSKLVIIITGGARQ QQGESRLNLVQRNVNIFKFIIPN VAKYSPNCKLLIRSNPVDI
18779	49147	B	18888	217	423	
18780	49148	A	18889	27	1217	ARRPTRPPDLIATRPRRPARRCI SRFPFGSKSNYWQPLKDQLIYN LLKEEQTP\QNKITVVGVGAVG MACAISILMKDLADE\LALVDVI EDKLKG\EMMDLQHGKPFSSFR NTKVLSSGKRL*M*LANSKAGS FITGWGHRQQEGKKAVALILVQ AVNVNIFKFIIP\NVVKYSP\NCK LLIVSNPVDILTYVAWK\ISGFP KNRVIG\SGCNL\DSA\RFR\YLM G\ERLGSSPH*ACHGWGPWGEH GRFPVLPVMGVGLNVAGVSLE DFWHPDFRTDKD*E\QWKE\XH K\QVVE\SAYEVIKLK\GYTSLG LIGLSCKPDLAE\ISIMEESFRRV HPS/SSHHLGLKGLYGNKRMNVS LSVPCILGQNGIS\DLVKG\TLTS EGRGPVGSKSADNNSWGSTKK
18781	49149	A	18890	1	264	
18782	49150	A	18891	3	736	
18783	49151	A	18892	81	1065	GKGPVAAFIDQSNIFLTDPKIFL GQWREPKMPLLLLGETEPLKL ERDCRSPVDPWAAASPDALA CLCHCQDLSSGAFPNRGVLGG VLFPTVEMVIKVFVATSSGSIAI RKKQQE\VVGFLEANKIDFKELD IAGDEDNRRWMRENVS*REKP Q\NGIPLPSQ\FNEE\QYCG\DFD SFFSAKKENIIYSF\LGWAPLPDS KGSEKAEAG\GETEAQKEGSED VGNLPEAQEKNEEEGETATEET VEEIAMEGAEGEAEETAEGE EEPGEDEDLGLFMLHFFHFSQ KMEAMKQHSNVLSTNQTETET FGLKPAHPRVTEIMLPDLIR
18784	49152	A	18893	19	445	

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18785	49153	A	18894	1	622	QAAWILKARALTEMVYIDEIDV DQEGIAEMMLDENAIQVPRP GTSCLKPGTNQTGGPSQAVRP TSHSEKPITGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGTASMLTSPDGPFIN*SRL NLTKYSQKPKMAKALPEYIFHH ENDVKTALELAALSTEHSQYK DWWWKVQIEKRYRYRLGMYRE AEKQLISAMKQ
18786	49154	A	18895	1	1651	MKAEICKSRTVKDWHNHQKLG EGNKTDSPQPSEGNTANTLIL DFWPLEMIACCWETFPQRLTAE LFMNPTHRWHGYKNQSVGAL RAPLGQGSPRRGLPGRVGRRL FTRPPLSWSAGPSLAAPAAMS SEMEPLLLAWSYFRRRKFQLCA DLCTQMLEKSPYDQEPDPELPV HQAAWILKARALTEMVYIDEID VDQEGIAEMMLDENAI/PSSTP ITQAGRPITGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGRLGMYREAEEKQFKSAL KQQEMVDTFLYLAKVYVSLDQ PVTALNLFKQGLDKFPGEVTL CGIARIYEEMNNMSSAAEYYKE VLKQDNTHVEAICIGSNHFYS DQPEIALRFYRRLQMGYINGQ LFNNLGLCCFYAQQYDMTLTS FERALSLAENEEEAADVWYNL GHVAVGIGDTNLAHQCLRLAV VNSNNHAEAYNNLAVLGDAEG /RHVEQARALLQTASSISTPYV* TAFLILQQSLIRFGDLQRSYVAA QKSEAAFPDHVDTQHLLIKQLRQ HFAML
18787	49155	A	18896	2	295	
18788	49156	A	18897	1	4470	MLGLGLRLRLRQGSHAVTRCRP LPVRREGRRDGSPWRSVVCRY CRCSRQTGASVTTVSLPSSSSSP GLDPRGPRQASVKKPAEANPV LRPLVRHGTPYRDSEEGKREGL SRLRAVCRAGPRGRGSFSPRD ARASPRHLFLVAAVTTGAASRR QRGARVRQPSPPSSRRRAKRLRE CERRSLHAPPAMDASYDGTEV TVVMEEIEEAYCYTSPGPPKKK KKYKIHGEKTKKPRSAYLLEY YDIYLVQVQELPHLPQS

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18789	49157	A	18898	89	810	QRRSGCVLRMTEWETAA\PAG GQRTDPDIKALWGS GAPDDVAR SMNISLQ\DYIAS*RRKLCPSYLP \HSCQGGYAAKNLSRKAQ\CPI\ VER\LTNSPMMMHRPQQPARK LMTVRIVQA/HAFEIITPCSQAE NPL\QVLGEPSPINS GPRED SHT HLGAAGTVRRQAVDV\SPLRRV EPGPFWWACCTRLVKGLAFPG TFKTIG*VAWAD\ELI\NACQGA PSNSYCL*EEGRVAFLEHVAKS NR
18790	49158	A	18899	1	365	DTHFK/DSHRTSTAHL\LSLSQ GPSPPNLPLGVPI\S\GMGLGPRG EGRANPIPTVLKRDQEGLYRS APQPRVTHFPWDTRAVAGRE RPPRVATLSWREERRREEKDRA WERDLRTYMNLEF
18791	49159	A	18900	203	427	
18792	49160	A	18901	95	482	ALQSPKLWG YFSGRKVFLNYFF SSQQVSEAVVATGSPRAWLTC LILPLPGIIFSVLPKAMSRPLLITF TPATDPSDLWKDGQQQPQPEK PESTL\DG LAAKLFYEALIGDES SAPDSQRSQTEPARERKR
18793	49161	A	18902	348	1660	GVTHLFLFGKRKLNRNGIAGRIK GPGWIFFSYCRSLRLWLLTGSP LSLALPCLILPLPGIIFLKFSQKAI VPGPLLITFTPATDPSDLWK\DG QQQPQ\PEKPESTL\DGAAARAF YEVALI\GDESSAPDSQRSQT*T WPEERKRKKRGLLKAPAAEAL AEG\ASGRPVQGRSLEADDPMT YRIL TSAQEGD\LP*LM\RLLEPH EAGGAGGNINARDAFWWTPL MCAARAGQGAAVSYLLGPG\A AWVGVCESGRDAAQ\LAEEA GFPEVARMVRESHGETRSPENR SPTPSLQYCENC DTHFQD\SNHR \TSTVHLLSLSQGPQPPLPLGV PISTPRF*ILLGGVGS PGMGLG PRGEGRANPHPQLILK*GPRKG LG\YKISTPSPEVTHFPSFGIPRA VAGRERPP\ RVA\TLNWKE/ERR RREEKDRA WERDLRTYMNLEF
18794	49162	C	18903	135	299	

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18795	49163	A	18904	3	2074	ERSRPVALRAAVPRMNPSTPSY PTASLYVGDLHPDVTEAMLYE KFSPAGPILSIRICRDLITSGSSN YAYVNFQHTKDAEHALDTMNF DVIKGGKPVRIWWSQRDPSLRKS GVGNIFVKNLDSINNKALEYDT VSAFGNTLSCKVVCDENGSKG YGFVHFETHAEAAERAIEKMNG ML\LNDRKVFVGRFKSRKERE ELGARAKEFTNVYIKNFGEDM D\DGRLK\DLFGKF\GPALKCEK LMTDESGKSKGFGVVSFERHE DAQKAVDEMNGKELNGKQIY VGRAQKK\IERQTELKRKFEQ MKQDRITRYQGVNL\YVKNLD DG\IDDERLRKEFSPFGTIQLVP KVMDGGLVAAKGLGFVCFSSP E\ATKAVTEMNF\RIVATEPLY VALA\QRKEERQAHLTNQYYG RGMASVTEAVPNPVIQPLPGQ APPFRFTFMGRFSHRFRNRA\AY YP\PSQIAQTKTKFLRWGQGA RT\HPF\QNMPGCYPAQLAPRPP I*GTMRPASSQ\VPR\VMPTQR\ VANTSNTDKWVPRSCSLQAAA AYVL\RPAFPQYKYAAGVRNS \QQHL\NAQPQVTMQPCCSMV PRVQGTLWTCLPMVGHLPSPSR SKSQMLGWNLFPYSKPMHP YSLLVKSLG\MLEIDNSEL\LH ML\ESP\ESLPF*RVDEAVAGTTS PPQAKRGLAQKAG*QVPTGVP
18796	49164	A	18905	1	988	MAEDGEAEFHFALYISGQW PRLRADTDLQRLGSSAMAPSRK FFVGGN\WKMNGR\KRRLGELI GTLNAAKVPADTEVVCAPPTA YIDFARQK\LDPKIAVAAQNCY KI\TN\GAFTGEISPGMIKDCGQ PWVVLGHSERRHVF\GESDELI GQKVA\HALAEG\GVIRLHLG RS*DERGSLGIT\EKVVFE\QTKV IRR*T*KDWKQ/VVVLGLMSPV WGLWLLARLATPQQA\QEVHR RSSRGWL\KSNVS\DAVASEPPV TIYG\GSV\TGATLQRLAKPSP DVDGLPLWGGASLQARNSWDI IQCHNNEPPSHLSLPLRCQAQG LKQTQKPK

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18797	49165	A	18906	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPQAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
18798	49166	A	18907	1	360	
18799	49167	A	18908	52	513	QLGPHGHRQGGPVAVPHPRG LVPLPALLPSGPRRGRTQAPR HSGPAL*GHPASDTYIVFGEAKI EDLSQQAQLAAAEKFKVQGEA VSNIQD\NTQTPTVQEESEEEV DETGVKDIELVMSQANVSR AKAVRALKNNSNDIVNAIMEL
18800	49168	A	18909	1	422	RSLCQTGLRQ/VTG/VTKVITGN LENLFVI/TKPDVYKSPASDTYI VFGEAKIEDLSQQAQLAAAEKF KVQGEAVSNIQENTQTPTVQEE SEEEVDETGVKDIELVMSQ ANVSRAKAVRALKNNSNDIVN AIMVSVQAFVP
18801	49169	B	18910	427	529	
18802	49170	A	18911	122	252	
18803	49171	A	18912	44	189	SKLDYKSSKRHRKPVSNFITSF QIWD*FLFFF*LKCQLQPRVFSQ PN
18804	49172	A	18913	2	609	PFLPEAHLGNQKCQNCNSTSGI CRVSVKVCPPWVHAKLCAPT LMSRDVTLDPAPVKKPCGEGG AKKKKQVLKFTL\DCTHPVED GIMDAAQF*ASFCKERIKVNG KAGNLGGGVVDPSKGARGKIT VTSEVPFSKRVF*KYL/TPKKY LKKNNLR*PGLPRSLPNQPKEK LPNFRYFQINQGRKEGGRGF KFPLSGKILL
18805	49173	A	18914	107	524	AGTHLPFLPVAVRQPMALR\Y PIAVGLKQGPTKV\TQEP*ASPR HHVRRGRL\TKHTKFVRDMIRE VCGFSP\YE\RRAMELLKVSKD K\RALKFIKK\RVGTHIRAKRKR EELEQQYWPAIEEKLACQERLE PLPLPSPLK
18806	49174	A	18915	39	465	

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18807	49175	A	18916	439	1586	TWGPPARRLP SGSHVPSA/ASSR LP SHPREEPQLPQAPVTITATM SSEAETQQPPAAPP\GAPALSAA DTKPGTTGSGAGSGGPGGLTSA APAGG\DKKVIATKVLGT\VKW FNVRNGYGFINRNDTKEDVFV HQTAIKKNNPQKYLR SVGDGE TVEF\DVVEGEKGAE\AANVTG\ PGGV PVQG\SKYAADR NHYRR YPRRRGPPRHYPQ\NYQNSIESG EKNRGIGRVLPEGQAQRRPY\ RRRRFPYYMRRPYGRRPQY\ S NPPVQGEVMEGADNQGA\GEQ GRPVRQNMYRGYRPRF\RRGP\ PRQKTA*ERAAMEEDK\ENQGV WDPRFGSPQ\RRYRRNF\NYR\ RRRPQKTPK\QDGGQKRPKAAG SHPA*EFVPLPEAE\QGGAE
18808	49176	A	18917	1	651	MTAFNSGKVDIVAINDPFIDLN YMVYMF LYDSTHGKFHGT VK AENGLTVINGNPIT\IFQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSG\NCHVM AAGLSRTSSLSLLA/LAKPVGK VIPELNGKLTGMAFHVPTANVS VADLTCRLEKPA/KYDDIKK\NT HSSTFDAGAAIVLKDHSVKLIS WYDNEFGYSNRVVHLMAHNA
18809	49177	A	18918	2	5264	

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18810	49178	A	18919	3	1466	PRSAPRAASWLEDPREVRSVCL SAPPVRQSAAIFFCVASRATSLR TPMGKVKVGVNGFGRIGHLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGT\VK AENGKLVINGNPITIFQE\RDPSK IKWG\DAGA EY\VVE\STGVFNQ PWRKAGAH LQGG\AKRV\ISAP SG*MPPMFVMG\VNHEEV*QTA FK\ISN\ASCTNQLA*QPLAKG*F HDNFG*SWEGLMTTVPWPSLG NPRKTV D\GPSRG\NCGPWMGR GGFSRNIFLC LYWALPRAVGKG HP*A*TGKLTG\MAFPVSPTAN VVSGWTLTCRFRKNLPKY\DDI KEGW*KQAFGGAPSKGIPGLQL SHQV\SSDFNSD\HSFHPFDA GA\GIA\LNDFHVKL\SWYDNE FGYSNRVVDLIGPHGLQGS KTP WTTEPQARSKKGERPSLLGSP CHTQTPTTLNLPS SQLPCRPLEE GRGLWEPHLVMYPSNKVSLCS TKKKKKKKKKP
18811	49179	A	18920	3	364	STVINIHSETSVPDHV/VLVPVQ HPLLE\RCCLGFIAFAYSVKSRD RKMVG DVTGAQ/ALCLHRQVP EHLGPDSGHPHDHWIHPVTGIR LCDSLPY YVTDNTGKTGLLVA AHS LQPLHSTVQCW
18812	49180	A	18921	41	696	PDRRWSSLGHHESHCPNHSSLL STVASPPNYEDAQGR*SR/EVA VLGAPHNPAPPTSTV\HIRQSR PPWPDHV VWSRVQHPLQ*TPA C\LGFI AFAYSVKSRGQGRWL G DV\TGAQGLMPPPAKV PETIWG PDFWGILNDHF\VHRHPQWLIFP G\HGIDQGRHHWRPGALPI/VTC IPRLLP T\SIPRPAPRSPKSCISPYI LTRFSTMAFNKSARVSGKKKK

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18813	49181	A	18922	127	1016	SNLILRNLFPCPHLALASSAFDKC QEEETVEKTELLAERRGLTENH PGNPITAGHHEPHCANLLSCQQ RPRLPNYEMLKEEQEVAMLGA PQKPCLPECPPVIHYPQARPPWP DHVRLGPCFNNPLQ*TTCCPGL SLGISAYFRGSFRGTGKMV\GD VEPGPQGLMPPTAQVAP*TSGA PDLGLSLHEPILAHQSSPPKCW VVPGPAIDQEASLRP\GA\LPVT C\IPRTL\SSIPSLPPEARELLPFD LYSTYSTFHSSPCPHSRVLHQPF ILTRFSTMAFNKVVMFLVKKK KKKKKKV
18814	49182	A	18923	115	652	VSESTDLVSIQRLVTRA\AFNSG KVDIVAINDPFIDLNYMVMF\ QYDSTHGKFHGTVKAENGKLV INGNPITIFQE\RDPSKIKWGDA G\AEYVVES/TLGVFTTMEK\A GGSFCRGGAKRVIHLLPPLA*C PPCFVMGVN\HEKDDN\TLKIIS N\ASCTTN\CLAPLASTGAAKGC GQGHPEA
18815	49183	A	18924	91	399	
18816	49184	A	18925	26	304	
18817	49185	A	18926	18	203	
18818	49186	A	18927	23	355	
18819	49187	A	18928	1	211	RLLRVRGPPSPRPPGTPAGRQA RHTAPVPARASPSTPPRKLKER APALASPERGSHSAAEG*RAPQ VPPK
18820	49188	A	18929	2	800	
18821	49189	A	18930	1098	1560	VSCPFTVIIFCYNFCRGGFSTTA VMARAKSMFLMLKGKAGPDF GIRFTASSGWFT*FEDRYALHN VNMNAESVGADVKAEE\DFGS LIMEEIYLPQTQFFNMEEPSLFWK QMPERTFVICPKGFFPDHCNKE RPWHFCKRKSLTDTRVATPCG
18822	49190	A	18931	33	211	
18823	49191	A	18932	110	624	CILSKMLRSPQELARLPGGQRQ LTRW*QRWPLWTIALVLVLWR VKSGP*S*RVSPSP/PVEPWVT LNMAGAPHGNPAFPFGGPPHP VPQPGYPGCQPLGPYPYPPYPPA PGIPPVNPLAPGMVGPAVIVDK KMQKKMKKAHKKMHKHQKH HKYHKHDKHSSSSSSSSSDSD

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18824	49192	A	18933	2	664	CEPLRISGRPTRPGRERSKPRRRL ER*WGWRTHLNMWNPAGQP GPNPYPPNIGCPGGSNPAHPPPI NPPFPPGPCPPPPGA\PHGNPAFP T\GGPPHPVPQP\GYPG\CQPLGP YPPPYPPPAPG\IPPVNPLAPG\M VGTKQLISRQEDCRRKLKKAS* KRCHKA/HQKHHK\YHKHGHK FLLFPPPSFQAVISGLEYPALDP SLKSHQFCSPIKLQMPCCCTGGM
18825	49193	A	18934	3	409	QTQVVVIDAG/ALAVFPSLLTNPK TNIQKEATWTMSNITASR/QDQI QQVVNHGLVPFLVSDLS/KDFE TQKEAVWA/GGTVEQIVYLVH CGIIEPLMNLLPAKDTKIILVILD AISNIFQAAEKLGETEKL SIMIEE CGGV
18826	49194	A	18935	133	400	VLGPHGLGDHLGQFHSCQSRA EPPIAGEDIHAGLDEPDCLTKDF LRI*LQLSTQLHAGQEEEDQNV VPETTSEGYTFQVQDGAPGTFN
18827	49195	A	18936	218	863	
18828	49196	A	18937	106	1879	TQSALQPLIPPASPSPWKAQARF GAFSLCLITMSTNENANTPACP VVHRFKNKGKDSTEMR\RRRIE VNVEL\RKAKKDDQMLKRERL *AHFLDDATSPLQEN\RNNQG/T LLNWSVDDIVK\GINSS\NVENQ LQATQAAR\KLLSREKQPPIDNII RAGLIPKFVSFLGRT\DCSP\IQF ESAWALTNIASG\TSGQTKAVV DGGAIPAFIFSGWASSHAHISEQ AVWALGNIAGDGSVFRDLVIK YGAVDP\LLALLASS**CQSLAC GYLR\NLT\WTLSNLC\RNKNPA PP\IDAVEQILPTLVRLHHDDP GSRQDT\CWGYFPTLLDGSK WNGIGHGWV/VKQGVVPQLVK LLGASELPIVTPA\LKSP*GNNW HLGTDEQTQVVD/IDAGALAV\ FPSLLTNPKTNIQK\EATWTMSN ITAGRQDQIQQV/V*NHGLVPF PLSVFLSKADFKTQKEA\WVAV TNYTSGGTS*TELVYLV\HCG\II EPLMNLFYCKRLPRIILLILDAN FKISFQPAENL\VDLEKPSINLE\ ECGGLRPKLKALPKPMKMEVS YKASVKA*FEKYFPCRGKEGRI KTVVPIETT\SEGYTFPSSRMGPP

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18829	49197	A	18938	2	251	KVTNVKDGTTTHQTSLELFMYL NEVAGKHGTVGRIDIVENRFIGM KSR/GMNVQGDYEPTDATGFIN INSLRLKEYHRFQSKVTVK
18830	49198	A	18939	1	888	
18831	49199	A	18940	1	1155	MSSKGSMLVLAISGGLNTSCILV WLKEQGYDVTAYLANTGQKE DFEERKKALKLGAKKVFIEDV SREFVEFIWAAIQSSALYEDH YLLGTSLTRPCIAHKKVETVQR VGAKYEGPWRAPWRMPEFYN WFKGRSDLMYAKQHGPILVT PKNLWSIDKNLMHISYKAGILE NPKNQVPPGLYTKIQDPAKAPN TPDILKIQFKKGVPRVTSVKD GTTHQTSLELFMYLNEVAGKH GVG/YIAIVENIFTRQRP\SPECEF VRPCIAKSQEPAGEKVQVPVLK GQVYILGWESPLSLYNEELMSV NVQGDYEPIDDTGFININSLRLK EYHCLQSLLEFAGCRLQTLFAW VSPAGAAEQQRLLPVPSSGNFIP EGHLPDASWSSPV
18832	49200	A	18941	1	993	MSSKGSVVLAYSGLDTSCLV WLKEQGYDVIAYLGAQVKG QLLPVSLVKRKTTPGAQYANR LSPRVGRFINAAGTTGFPTGKR AGNDQVRFEFSCYSLAPQIKEM GSLKVRNE/LQEVSTVPMPAST QLPADTQCKLAE/LSAPVKK*T LGLSKT*QTQVMSSQSADSM PR AWYRN*LFTNPTVRRLGNSPVT GSSLPRLPG/RGIYETPAGTILYH AHLDEAFTMDREVRKIKQGLG LKFAELVYTGAECKLLVASVPE PWRGRGGVEEGGRDIKEVQEH GSDSAESSTHPPASRPGEGLA CIFCGKWRHLNTPLSCLERYPRH SRDHRPH
18833	49201	B	18942	324	1035	

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18834	49202	A	18943	29	1516	KQIPDAGNSRLQSQTLSSKGS VVLAY\SGGLDTSCILVWLKEQ GYDVIAYLANIGQKEDFEEARK KALKLGAKKVFIEDVSREFVEE FIW\PAIQVQAHLY\EDRYLPGH LSLPGPC\ARKQVGNPSGRGA KYVVPTGATGKG\NEQ\RFEL S\CYSL\APQIKVIAP\WR\MPEFY NR\FKGRNDL\MEYGKATLGFPI PVTPKNP\WSMDENLMH\SYE AGILENPKNQAPPGLYTK\TQGP SQKPPTPLDILGDSSFKKGVPVE GGPTFKDG\TTHQTF\ELF\MY LNEVAG\KHGRRAVFDIV\ENRF \IGN*SPRGILRRTPAGHHSFYH AHLDIRGLSPWDRGSCGKIKQG PGAWKFAEL\VTGFPAQAPE\ CEFCPPTGIAKVPRKPSGKGKV QVVSFKGPQVYI/LSGREIPHC LLTMRELVKHGTCKGDYWRP IDGHRGSSKHQIPFKAEGNYHR LPRAKVTCQIDPVYNEELGPPQ FSGSPQVTGANCCDNL
18835	49203	A	18944	1	560	GRARTPANMALRVVRSVRALL CSLRALWAPAVPCLPRPWQLG AGAIWTLTGPVLLWVCKFTE KHEWITTENGIGTVGINNFANE ALGDVVYCSLSEVGTKI*TKPS WSLVLE\SVKAASEL\FSPLSG EVPDFNEALAE\NPG\LVTKSRY EDG\WLIKMTLSNPFRT*MHL MSEEAYEKYIK\SIEE
18836	49204	A	18945	3	108	
18837	49205	A	18946	1	845	MAIPGIPYERRLLIMADPRDKA LQDYRKLLLEHKEIDGRKELR EQLKELTKQYKSENDLKALQS VGQIVGEVLKQLTEEFIVKAT NG\PRYVVGCRQVIELPLTNPE LFQRVGIIPPKGCLLYGPPGTGK TLLARAVASQLDCNFLKVSSS IVDKYIGESARLIREMFNYARD HQPCIIFMDEIDAIDIDLNEQA RLDILKIHAGPITKHGEIDYEA VKLSDFNGADLRNVCTEAGM FAIRADHDFVVQEDFMKAVRK VADSKKLESKLDYKPV

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18838	49206	A	18947	3	1181	LLIMADPRDKALQDYRKKLLE HKEIDGRIKELREQLKELTKQY EKSENDLKALQSV\GQI\VG EVL KQLT\EEKFIVKATNGPRYVVG C\RRQL*QKVSLKPG\TRVAL\D MTTLTI\MEDILPR\VDPLVYN MS\HEDPG\DVSYSEIGGLS\EQI RGI*GEVIGLPLYKQSYFQRVG IIPPK\GCLLYG\PPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFM\DEIDAIGG\RRFSEGTSADR EIQRTLME LLNQMDGFDTLHR VKMIMATNRPDTLGPALLRPG RLDRKIHIDLPNEQARLDIL\KIH AGPITK\HGEIDFESNC*SFRMG FNGADL\RNVT*SQACSPIRAD P*FC*YREDFMKA\VRKVA
18839	49207	A	18948	1	220	VNMRDRFGQIMIENTLRRRQCEL AGVETCKSLES\RIESLEFLDEM */LLEQLM/RHYCLCWATKGGN ELGLKEITY
18840	49208	A	18949	1	645	
18841	49209	A	18950	10	1226	AAPAEPRALPSSVAFSLWLAP SPAARRPRFHVPGGAQLPGTVH ARWPARQR\ESSITSCCSTSSCD ADDEGVRGTCE DASLCKRFAV SIG\YWHDPYIQDL\VRLSKQR\ KAPEINRGYFARVHGCSVQLIK\ AFLRKTECHCSNCSNLGGQGM GSPPFWR LKDEDLSSQVNIFEV DFPMIVTRKLHSIKWLAFLSS PILELHSED TLQMASDCIC\DGH ILDSKRYAVIGADLRDLSELEE KLKCKNMNTQL\PTP*IAECVL VYMTPE\QSANLLKWAA\NSFE RAMFIYYQQVNMGDLFGQIMI ENLRGPV/CDLAGVETCKSLE SQKERLLSNGWENKHPVRT* LEFVPPGLPSKLK*SRIESLE\LD ENWELLEQLIPHYCL\CWATQR RK*SLGLKEITY
18842	49210	A	18951	3	502	TEANTLN*RGLQNME/ARLAE/ RKFM/NPFNMPNLYQKLESD/P RTRTLLSDPTYRELIEQLRNKPS DLGTKLQDPRIMTTLSVLLGVD LGSMDEEEIEATPPPPLPSSSMS LSPAPSCCLGCSPIVGFFFIWGS GHVMGRGGGSSSLRSQLSHVV YSASPSPIKQASWAWL
18843	49211	B	18952	1	1071	

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18844	49212	B	18953	67	1026	
18845	49213	A	18954	2	1910	PVASSMFQKAARAVGNAERTD SIQRCSGPRCAMEQVNELKEKG IKALSVGNIDDALQICYSEAI*/R LDPHNHVLYSNR\SAAYAKKG DYQKAYEDGCKTVDLK\PDW GKGYSRKAALFLYRFEEAK RTYEEGLKHEANNP\QLKEGLQ N\MEARLAK\RKFMNPFNMPNL YQKLESDPRTRTLLSDPTYRELI EQLRNKPSDLGTLQDPRIMTT LSDLLGVDLGSMDEEEIATPA PPPPAKKETKPEMEEDLPENK KQALKEKELGNDAYKKKDFDT ALKHYDKAKELDPTNMTYITN QAAV\WFEKGDYNKCRELCEK AIEVGRES\REDYRQIAKAY\ARI GNSYFKEEKYKDS\HFNKSL AEHRTPDVLKKCQQA EKILKEQ ERLAYINPDLALEEKNGNECF\ QKGDYPQ\AMKHYTEA\KRNP KDAKL\YSIRAACYTKLLEFQL ALKDWEEWYQLEPTFIKGYTR KA\AALEA\MKDYTEKAMDVYQ KALDLDFSCKEAADGYQRCIM AQYNRHDSPELVKRR\AMADP EVQQFMS\DPA\MRFILKQMQK DP\QALSE/HL*RNPLLPREIQKL MDVGSDCKFGDDLFIAPFLCPS CGKRSWDRGEQAARSGRESST ERKGEQGERRPSSPYIYT
18846	49214	A	18955	2	293	
18847	49215	B	18956	53	182	
18848	49216	A	18957	2	403	
18849	49217	A	18958	3	1646	
18850	49218	A	18959	3	408	
18851	49219	A	18960	1	2458	

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18852	49220	A	18961	88	1511	LWPLGMASSSSCPTPGGGHL NGYPVPPYAFFPPMLGGLSPP GALTTLQHQLPVSGYSTPSPATI ETQSSSSEEIVSPSPPLPRIYK PCFVCQDKSSGYHYGVSACEG CKGFFRRSIQKNMVYTCHRDK NCIINKVTRNRCQYCRLQKCFE VGMSKESVRNDRNKKKKEVPK PECSesyTLTPEVGELIEKVRKA HQ\ETFPALCQLGKYTT\NNS\SE QRV\SLDIDLWDKFSELSTKCII KNGEGRQGRLPGFTTLT\IADQI TLLK\AACL\DILILRICTRYTPE AGTP*PSWDGLTLNR\TQMHNA G\FGPL\TDLVFAF\ANQLLPL\E MDD\ARETGLLSAICLICGDRQ DLEQPDRVDMLEPLLEALKV YVRKRRPSRPHMFPKMLMKIT DLRSISAKGAERVITLKMEIPGS MPPLIQEMLENSEGLDTLSGQP GGGGRDGGGLAPPPG\SCSPSL PSSNRSSPATHSP

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18853	49221	A	18962	143	2159	LTHSSTWLGRSCNHDRRQMGS KVMSYVVAGRGTCAQETPIYT TIRYLEDKEQYGGSLGVDSVLA RLFSGASVLFISGPPFSSYLSGVP PGHPMEDSM\DM\DMSP\RPQ NYLFGCELK\ADKDYHFKVD\N DENE\HQLSLR\TVNLGGLVAK G*VAHLLKAEAIEFTEASPNLK V\TWAT\LM\SVPAQRVFLG GLLKITPTRWVLKGLKVWVQG PVHISGTAL**LWEGRCQSPED EVEDVNRVLFMKPKGRGLKH MFGDLVCSWKLAAIETQSSSE EIVSPSPSPPLPRIYKPCFVCQD KSSGYHYGVSACEGCKGFFRRS IQKNMVYTCHRDKNCIINKVTR NRCQYCRLLQKCFEVMGSKESV RNDRNKKKKEVPKPECSESYTL TPEVGELIEKVRKAHQETFPAL CQLGKYTTNNSSEQRVSLDIDL WDKFSELSTKCIKTVEFAKQLP GFTTLTIADQITLLKAACLDILIL RICTRYTPEQDTMTFSDGLTLN RTQMHNAGFGPLTDLVFAFAN QLLPLEMDDAETGLLSAICLICG DRQDLEQPDRVDMLQEPLLEA LKVVYVRKRRPSRPHMFPMMLM KITDLRSISAKGAERVITLKMEI PGSMPLIQEMLENSEGLDTLS GQPGGGGRDGGGLAPPGSCSP SLSPSSNRSSPATHSP
18854	49222	A	18963	748	1075	ILPTSLFFLFCFVFFVCF*DRVLL LSPG\WSA VARSWLYCNLSLRG FKGFSCLSLLSNWDYRCTPLRS ANFVFL/CRDRVSPCWPTSVSNS *PQ\VIHPPWPPKVLGITRV
18855	49223	A	18964	3	674	GRRRLLRDAEGPEETVRLWPA ARAAMDAAEVEFLAEKELVTII PNFSLDKIYLIGGDLGPFNPG\LP VEVPLWL/ARLNLKQRQK\CRL LPPEWMDVEKLEKMRDHE\RK EETFTPMPPKPTTWELTKLL\N NHA\SDNIPKGRTEFRDPGSRVF WGHSY*AKFRVFG\DSF\VRQQ EAHAKLD*LGPWMGDQQPAVT FLTQA\LNPHVTNSRTNPPSPLE STSVLRTS

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18856	49224	A	18965	261	876	VAQKIDMPEYQGEPDEISIQKC QEA VRQVQGPVLVEDTCLSFN ALGGLPGPYIKV/WFLEKLP GLHQLLA\GFVEDKSA\YALCTF CTQAPGDPS\QPVARLVSGGRDL RGRIRWHPEGCQ\DFGWD\PC\F QPDG\YEQTYAEMP*GRRNA V\SHRFRAPCWEPA REYFWQV WPSLT SASWKEGPSRPGDLGK GLAPKPSPHRGRAPP
18857	49225	A	18966	2	181	TAEKMAVLAPLIALVYVPRLS RWLAQPPYLLSALLSAAFLVR KFPPLCHGLPTQREDGNPCDFD WREVEILMFLSAILMMKNRRSS TK*AHPTRRR
18858	49226	A	18967	5331	5454	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18859	49227	A	18968	5186	5308	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18860	49228	A	18969	4570	4691	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18861	49229	A	18970	5666	5788	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18862	49230	A	18971	5630	5752	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18863	49231	A	18972	224	456	
18864	49232	A	18973	5543	5665	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18865	49233	A	18974	4602	4725	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18866	49234	A	18975	3	313	
18867	49235	A	18976	5480	5602	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18868	49236	A	18977	269	394	
18869	49237	A	18978	5322	5445	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18870	49238	A	18979	164	434	
18871	49239	A	18980	5364	5487	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18872	49240	B	18981	18	1904	
18873	49241	A	18982	1296	1973	RILPGGQQNSSWNFSED TVISIL NTINEVIAENLEAAKKLRETQGI EKLVLINKSGNRSEKEVRAAAL VLQTIWGYKELRKPLEKEGWK KSDFQVNLNNASRSQSSHSYDD STLPLI*PGPKNQIRNLIGKKFR* AIWDQTQNH*IT/DYSTPNERGD HNRTLDRSGDLGDMEPLKGT PLMQDEGQESLEEELDVLVLD DEGGQVSYPSPMVCPSVTPKIVL EEGGS

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18874	49242	A	18983	5844	5967	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18875	49243	A	18984	5781	5904	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18876	49244	B	18985	1	1477	
18877	49245	A	18986	152	1539	
18878	49246	A	18987	5571	5694	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18879	49247	A	18988	4551	4674	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18880	49248	A	18989	2	1043	GVRLRYSPIAVVMVGEAGRDL RRRRVAVTAEKMAVLAPLI/S LSVYSVPR\LSRWLAQPYLLS A\LLSAAFLLVRKLPPLCHGLP TQ\REDGNP\CDFDWRE\VEILM FLSAIVMMKN\RRSITVEQHIGN IFMFK/SKVANTILFFRLDIRMG LLYITLCIVFLMTCKPP/LSPYM GPEYIKYFN\DKPFDEELERDNR VNW/ILLEFFGNWSNDWQSFAP IYADLSLKYNCTGLNFGKVDV GRYTDVSTRYKVSTSP\TK\QLP TL\ILFQGGQGGQCGRPQI*QGK GR/ALFSWDL*GT*KEGQENVI REFNLNELYQRAKKLSKAGDNI P\EEQPVASTPTTVSDG\ENKKD
18881	49249	A	18990	1	1105	MESTGEDAVNIVEMVTEDLVY RLVVLKSLQVWVSPGDFMGSE GTECMLIGPWVAMGRPSESTLS SHSGPRSPHGTGSPAPRLQAVH VLKCPKSRGVQGGWGLASQCL PEHRHTQLSCDSTQAWPQLCSA QSLRHNRSGQGAGAVTSEPAG AGGLPRPRTQGCLGAES/PAG QLHSQQRGGPEEGRLLSDVDHP DLSSSQQRGPEGP/QVAGGWCV SAAWSSTHLAGPQQRWDQEEA RQWEQIPLSLLMMGDPPGYSR APGDPGPQPQRQLQLCLGSSH PTNS*GAELPPVPGSAECAALT VLPSLHLPQWWQVGRPGPT*V DPRVGLPGQQAPEQRVYSLTHP EQLPVLQVPLLIYRYSSTYNGV
18882	49250	C	18991	105	393	
18883	49251	A	18992	38	230	LYWQKRKGKLLNNLTQGIVAD PVR*KKFHFKCPSNCPKIHNTES AYAVSFMKYSAHVLGSLYEM
18884	49252	A	18993	487	747	
18885	49253	C	18994	179	649	
18886	49254	A	18995	3	3187	
18887	49255	A	18996	274	423	

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18888	49256	A	18997	1333	2243	RCWRPRTLGFASPPTRPCSPTH APGCEMTPRDWHRVLSFASPLR IEEIFQGYDKTFGLKNKKGAKQ QKFIKAVTHQVKFGQ/SKSTSGS TE*SWKRKLKKDDKKELQEL NELFKPVVAAQKI/RVKGADPK SVV\CAFFKQGQCTKGDCKFS HDLTLGEKMEKRSVYIDARDE ELEKETKSSLIQADTMDNWDE KKLEEVVNKKHGEAEKKKPKT QIVCKHFLEAIENNKYGWFWV CPGGDICMYRHALPPGFVLK KDKKKEEKEDEISLEDLIERERS ALGPNVTKITLESFLAWKKRRR
18889	49257	A	18998	1	322	
18890	49258	A	18999	1	822	MGKAKEEVFLADELVHAKTNR NKECDYSVTANSKIVVVTAGV RQQEGESRLNLVQRNVNVFKFI IPQIVKYSPDCIIIVVSNPVDILT YVTWKL SGLPKHRVIGSGCNL DSARFRYLMAEKLGIHPSSCHG WILGEHGDSSDHPGRPRPHPVPI KPPETLPGRDTSSWTSRGAHWR RNTQAAGRREHIDRHQQAIDR WNNVGFGRRGGQRRARLLSDLT PTGKPSSYSVSL LAPP SAESYFH SIKPCIHSPS*CMQRPIEKN/RD YSVTANSKIVVVTAGVRQQEG ESRLNLVQRNVNVFKFIIPQIVK YSPDCIIIVVSNPVDILTYVTWK LSGLPKHRVIGSGCNLDSARFR YLMAEKLGIHPSSCHGWILGEH GDSSDHPGRPRPHPVPIKPPETL PGRDTSSWTSRGAHWRNTQA AGRREHIDRHQQAIDRWNNVG FGRGGQRRARLLSDLTPTGKPS SYSVSL LAPP SAESYFHSIKPCIH SPSPREIQFFGYTKARNPRVQK

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18891	49259	A	19000	1	1337	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADFVFSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEA TVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTQC NMMSLADELALVDVLEDKLKG EMMDLQHGSFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYS PDCIHVVSNPRDILTYGTW KLSGLPKHRVIGSGCNLDSARF RYLMAEKLGIHPSSCHGWILGE HGDSSVAVWSGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLG YTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGM YGIENEVFLSLPCILNARG LTSVINQKLKDDEVAQLK KSA DTLWDIQDKDLKDL
18892	49260	C	19001	462	728	
18893	49261	A	19002	1	1033	MSG SFLMFLPKADMPAPMLVQ PAERFDSWVWAGPEQLHSNQL PGDADALLGRNLTKGTRRLC TEEQVKIPQPEPGPPQKLCVLSA AGGQACLVLTFPRWTVWEEPP PPGLVGVKACARWWGKGEPD RKAPAPPPPPGTEKVDQTSE\E RGTLIQRPPAPALPGWVRKTGR P/PPPA/TGRLQQVPLL GASTQPE /PPGRGV/PPGVSPGLGEDVE/N DGMSLSYLAE*PQATSQRAP*G ENTVALSGRLGRNSSSYTCRPA GERNFHPRGGPSSTAALHLRK MPGTPQCEGRRVPRALPET*M LQGP GTTR*T/PPGPLAFSPSSP TGPQKV KSLGNSSARTILPPKW
18894	49262	A	19003	2	212	
18895	49263	A	19004	1	425	PTRPAAVAEDGGLKCKKISSYC RSQPPARLISGEEHFSSKKCLA WFY EYAGPDEVVGPEGMEKFC EDIGVEPEN\CDCTEKLQNK FDF LRSQ LNDISSFKNIYRYAFDFAR DKDQRS L DIDTAKSMLALLLGR TWPLFSV FY

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18896	49264	A	19005	229	1028	GASKRTGTPFPGFPAHPAREGR KMPVKKKRRKSPGVAAVAED GGLKKCKISSYCRSQPPARLISG EEHFSSKKCLAWFYEYAGPDE VVGPEGMEKFCEDIGVEPENII MLVLAWKLEAESMGFFTKEEW VKG\MTSLQCNLHRKGYKPNF DFFAAHS*IDISSFKNIYRYAFDF ARDKDQR\SLDNDTAKS\MLAL LLGEGHGPLFS\VFYQVPGGQS KYRVMNKD\QWYNVSEFSRTV\ HADLSNYDEG\AWPVLLDEF VEWQKVRQTS
18897	49265	A	19006	3	373	
18898	49266	A	19007	3	418	GRAGSRKWLLLTGSLASTSPSL LSGQGPWAPLQRAMKPPGGES SNLF\GFPEEATPSSRPNRMSSNI FGPTEEPQNILKRTNPPGV*GSG IFDESTPVQTRQHLNPPG\GKTS DIFGSPVTATSRLAHPNPKPDH VFLM
18899	49267	A	19008	1	684	
18900	49268	A	19009	3	81	
18901	49269	A	19010	1	465	
18902	49270	A	19011	120	344	
18903	49271	A	19012	3	1334	SPQLISSASRPVVRNSRH DATRP VVFQIMSGGSADYNSREHGGPE GMDP\DG VIESNWN EIVDNF/D VTMNLKESLLARGI\YAYGFKEP SPIQQKA\IIPCIKGY*CGLLKLQ SGTGKTATF\SLISILQPVGRLSF KETQSTSYWAPTREL\AQIQK VILALGDYMGATCHACIG\GTN VRNEMQKLQAEAPHIVVGTGP RVFDMLNRRYLSPKWIKMFVL DEADEMLSRGFKD\QIYEIFQKL NTSIQVVFASATMPTDVLEVTK KFMRDPIRILVKKEELTLEGIKQ FYINVEREEWKDLTCLDYETL TITQAVIFLNTRRKVDWLTEKM HARDFTVSALHGDMQKERV IMREFRSGSSRVLITDILLARGI DVQQVSLVINYLPTNRENYIH RIGRGGFRGKGVAINFVTEED KRFLRDIETFYNTTVEEMPMN
18904	49272	A	19013	75	540	

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18905	49273	A	19014	774	1529	RWGERILLTWRKRQLQVPPSAL EAGGSSGLEDVLP LLQQADELH RGDEQ GKREGFQLLL/TQQA W CMEAGR TFLWRLARAYS DMCE LTEE VSEKKSYALDGKEEAEAA LEKGDEE/SLTCHLWYAGALW SAG*AMRASRRRIQELALTFKE HCGQKPFALQPKTPMAHFLLG RWCYQVSHLSWLEKKTATALL ESPLSATVEDALQSFLKCYREL GKNSEARWWMKLALELPDVT KEDLAIQKDLEELEVLIRD
18906	49274	A	19015	97	452	GTERRTGKLPALLTPNLVQLRR LLFPGIQT I*VPAQGRGHLLQRP AAA/RPRTRSAPPA AAAAPPQV EARPP*LQPTRQE EAAELQTAR AGLWELWAGPQSPRDLNSLESI RITCSPTP
18907	49275	A	19016	1299	1800	FWGGRSGTVGYGADM GKFKN NTTNNQS*K*YRNTSRNPDHKD *FLKGMDPKFPKNMHFA*KHN EKGLEKMQDNNMRAEAIKA/L PKPMEVQPRVPKSASRKLD/LA YTAHPKAGKHARAHIATGLRL CWPKAKAKDQTKAQASASAA APASVLAPAQASKGAQAPMKA LE
18908	49276	A	19017	410	1323	RQEGTLIGVFIPAAAAA AVAA AAAAA AVAAAAA AVAA AAAAA AVAAAAA AVAA AV/GTSFSKPHKLMKEHKEKPS KDSREHKSAFKEPSRDHNKSSK ESSKKPKENKPLKEEKIVPKMA FKEPKPMSKEPKPDSNLLTITSG QDKKAPSKRPPISDSEELS AKK RKKSSSEALFKSFSSAPPLILTCS ADKKQIKDKSHVKMGKV KIES ETSEKKKSTLPPFDDIVDPNDSD VEENISSKSDSVPGQSPVTNIFF TSSSTPTILKSYQLDNSDQQGA QEASDKQIEGYFSGEVPAYRQG ELILVASRQ

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18909	49277	A	19018	91	890	GAERLPEGPGKRMVFRFVEV GRVAY\VSFGPHARK/MWVAIV DVF*SEQLLVE*PCTQVR\RQA \MPFRMQLN*FHPSRFPNSAQ ESMFRQAWQK\ADI\NTKWGSP HDGAKKIEAQKKGPKDDQIF D\RFKVMQKQKMRQE*SKE* S*RSFKRAALLEKLSPKKHLG T*GYCCLLLLLAAAAAAAAAA AACCLLACCLKVPSKKRSPAAS KKAPAKQVPAQK\ATG\QKAAP APKAQKGQKAPAKAPKAS GQESISGNHKK
18910	49278	A	19019	280	1249	SLNEGIMYAQP\VTNTKEVK\W QKV\LYERQPFSLDKLWWDRLF LGRSSGKNIHAPENTQY\WGCG *FESS\VIQQLCSVCVFVIR\W YMDEGLLAPHWL\VTGLASSL IGYVLFDLIDGGEGRKKSG\QTR WADL*ELP*SFITFTYGFSPVLK TLTEFCSALTPIYAMSVFMLLR HLIFFDYG\ANAAIV\STLLVN MAIFAS\VCWASRLP\RS\LFHFI MVA\FAIQIFCPGGPML\QKKLK \ACTP\RS\YVGVTLL\FAFSAVG\ GLLSISAVGA\VLLA\LLLMSISC LC\PFYLHFACSLFKENI/HMGP WDEA\EINKEDLSPGSL
18911	49279	A	19020	1	310	
18912	49280	A	19021	2	411	
18913	49281	A	19022	374	1275	VLTRLIRKRERRKAQSQRERCR CVLAKDFLAGGVTAISKMAV APTE/RVKLLQVQSASKQITAD KQYTGVDVCMVRIPKE/QGVLS LWH\GIQFWHKFAGSLASGGAP GATSLCFVYPL\DFARTRLAAD VGKAGAEREFRGLG*PAGLRIY KSDGK/LRGLYQGF\NVSVQGIH YRAAYFGIYD\TAKG\MLPDP\Q NTHIVISWMIAQT\TAVARVDF PIPFDT\VRRRNE*MQSRAPKEL TIHVHQARFDCWAEGLLRDEG GKAFFKG\AWVPMFLRGHGVG AFCALS\YGWKSKEGTHKLIS
18914	49282	A	19023	461	705	TERKKKGILPGNGNGFMSLRRT IRVWRNTPNYLGTNAVSPRQD *IGKKGVCQRKQAGCPPSNIQ GILEWRKHRISETKP
18915	49283	A	19024	2	408	

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18916	49284	A	19025	1	885	MTQHAGKRDSELPVIVQDTET VPSVMDGKEYQAGRFARGRL QCFRRRRRRRRTRRRRRKEEEE EEEEEEEEEEEEVEEEGMKKEE EGRRRKKKKKKKAEEEEKKK KEEEEKKRRRREPPRPRNDDD ARRRRKEEEEGRRRSM/LGKRD SELPVIVQDTETVPSVMDGKEY QAGRFARGRLQCFRRRRRRR RTRRRRRKEEEEEEEEEEEEE EVEEEGMKKEEGRRRKKKKK KKAEEEEKKKKKEEEEKKRRR REEPPRPRNDDAARRRRKEEEE GRRRSMKKEEEEEEEEEEEEE EEEEEEEEKKKRRIGPASKMM GGFEELRRGLNVGPTMAIFFLQ SAALAPAILYFCPSLKNISKCN FQFLMFCQLLGRVTIPFLVSQRS RIEVGRHSLSTLNAETAHEL YLGRTEPDECGKTAGLGTGLDLK
18917	49285	A	19026	1	378	
18918	49286	A	19027	36	3415	ESAANAQVLAAPSPCSPFAFTL SKVNMSLKNPRVNTSALQKIA ADMSNIJENLDTRELFEGEEV DYDVSPSDPKIQEVYIPFSAIYN TQGFKEPNIQTYLSGCPKAQVL EVERFTSTTRVPSINLYTIELTH GEFKWQVKRKFHFQEFHREL LKYKAFIRIPIPTRRHTFRRQNV REEPREMPSLPRSENMIREEQF LGRRKQLEDYLTILKMPMYR NYHATTEFLDISQLSFIHDLGPK GIEGMIMKR
18919	49287	B	19028	37	147	
18920	49288	B	19029	10	264	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18921	49289	A	19030	3	1255	HASGGRAANMAADRGAVQQQ SQDMMEVDRRVESEESGDEEG KKHSSGIVADLSEQSLKDGEED GAEEDPEEEHELPVDMETINLAD RDAEDFADLNHYRIGKIEGFVLE EES*RLSCLRQNL\KCL\ENLGR ELPESFRELDLYDNQIKKIEENLE ALTELEILDISFNLLRNIEGVDK LTRLKKLFLVNNKISKIENL\SN LHQLRMLGAGDLNRIRGQFSK YPTTL\TNL\ESWFLGKKTKITN FQNPGCASPNTLVLSMQSNRLT KIEGLQN\LVNLRELYFSHNGIE VIEGLENN\NKL\MLDIASNRIK KI*KISAHLTEL\QEFWDGTTIPL KSWSDLDELEGEPGALEDSPV WGGNPLARRTPKYRRK\VMLA\ LPSVRQDRCPRSVRFLKSFLGSL MWSLSSEELPSHG VFNPCCS
18922	49290	A	19031	138	564	YREVMVSES*ETPAGARGRPYY FSAPGTAP\PAINVHPPPPSLSAT PHPPQPQPPPPHQNNAKARVAT IRTKRTSNCRIRSRKVRKSPPEK WVGFNRRPKASCSPPGAARV DVGGETERREQAAAPGEMGK WARPGEYFHS
18923	49291	A	19032	1404	1586	ENESRFSDRNQASAGLGYLSDS L*QWIVGNHATDLWQNCSTS SSGNVHHCFSSSPNGSG
18924	49292	A	19033	187	701	AELAARMLLLLLSIIVLHVAAL VLLFVSTIVSQWIVGNHATDL WQNCSTSSGN\VHHCFSSSPNE WLQSCSRGTMDPVDSSFSILSL FLFFCQLFTLTKGG\RFYITGIFQ ILAGLCVMSAAAIYTVRHPEW\ NLNSGY\S*RFA*ILAWVAFPL\ ALLSGVIYVILRKRE
18925	49293	A	19034	1	493	
18926	49294	A	19035	105	307	
18927	49295	A	19036	32	302	
18928	49296	B	19037	119	641	
18929	49297	A	19038	496	653	
18930	49298	C	19039	568	747	
18931	49299	A	19040	522	656	ESSQSHGKNFYMGKRIKLSLY WNVWRMLNSKSETTNCPLIRH RLSKRVGAPFLPAVLVLTKITIY QT*KFQIRNHKLPSNKTSAI

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18932	49300	A	19041	111	277	RHVVA VVLGDVGRSPRMQYH ALSLAMHGFSVTLLGFCNSKPH DELLQNNRIQIVGLTELQSLAV GPRVFQYGVKVV LQAMYLLW KLMWREPGAYIFLQNPGLPSI AVCWVFGCLCGSKLVIDWHNY GYSIMGLVHGPNHPLVLLAKW YEKFFGRLSHLNLCTNAMRE DLADNWHIRAVTVYDKPASFF KETPLD\RTHRLFTKLTNMHSPF RARSEPDPVTERSAFTERDAG SGLVTRLRERPALLVSST\SWTE DEDFSILLAALESRV*TTDS/SIG HNLPSLVCVITGKGPPREYYSR LIHQKH FQHIQVCTPWLEAEDY PR/ILGSVDLGVC LHTSCSGLDL PMKVVD MFGCCLPVCAVNFK WQEQNP NLSGDSFTDPPLRRKQ CRASCPQ*GPAPGLHEL VKHEE NGLVFEDSEELAAQLQVLFSNF PDPAGKLNQFRKNLRESQQLR WD*SWG SATPNPMSSCR TTE
18933	49301	B	19042	110	2294	
18934	49302	B	19043	81	1538	
18935	49303	A	19044	21	1158	AVVAALPTSSSSRHSLTQKPGS RRRLIESLLPPSSCEIFLIFYFR LCEKPYHQTRSASNV TNKTDPR SMNS\RVFIGNLNTL\VKKSDV EAIFSK\YGKI\VGCSVHKGLCLS VQVMLMRRNAPGLL*QGE\DG RMI/ALGQVLDINLAAEPK\VN\ REKSSVKRSAEMYG/SQ*QNT LLRPLYFSSSFDLDYDFQRDYY DRMYSYPARVPPPPPIARAVVP SKRQRVSGNTS\RS GPRGFNSKE WNSGVSSKFWKR*KGDDLQ\AI KEELTQINQK\VDSLLENLEKIE KATGANKQLEMK\ND\KSEEEQ SSSSREGKMRTNVKDG V*GGV PDDSAEGGGPTWMND DNVKS GGMTSWELIKDDEKEAEE\GE DD\RD\ SANGGG
18936	49304	B	19045	93	303	
18937	49305	A	19046	1	246	
18938	49306	B	19047	123	487	

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18939	49307	A	19048	584	1664	SGLFLFLFFYSEIFLIFSIFRLCE KPYHQTRSASNVTNKTDPRSM NS\RVFIGNLNTLVVKKSDVEA IFSK\YGKIVG\CSCFIKGFAPFK *C**EEMPRACCSGRRVGRIDLL GQVLDI*PGLAEPK\VNPREKPG VETILPAGDVRGQ*QNTLLRPL YFSSSFDLDYDFQRDYYDRMY SYPARVPPPPPIARAVVPSKRQR VSGNTSRRGK\SGFNSKEWNSG VSSKFWKR*KGDDLQ\AIKEEL T\QINQK\VDSLLENLEKIEKAT GANKQLEMK\NDK\SEEEQSSSS REGKMRNTNVKDG*GGVPDDS AEEGGPTWMNDDNVKSGGMT SWEL\KDD\EKEAEEGEDDKR QGPMARNDS
18940	49308	A	19049	158	1001	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCSWVDQ\KLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNR\IPTARL\IL\EELGQ EWVPVESSWRLNERH\YGALI GLNREQ\MA\LNHGE\EQVRL\W RRSYNVTP\PIIEE\SHPY\YQEIY NRPGGIK\CDVPL\DQLPRSES\ LKDVLERFLPY\WNERIAPEVL RG\KTILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPILL VELDENLRAVGPH\QFLGDQEI QAAIKKVEDQGKVKQAKK
18941	49309	A	19050	1	521	SASWVGVMASRVLSAYVSRL PARFAP*PRVRMLAVARH\LST ALCSEGTQTRLGTLQPALVLA\ QVPW*ELHMLCRQYSDMP/PRL TLEGIQ\DRVRLA*LKTLSDKVD PREAFQ*ILHFMKDLGLDSLDP KWKI\MALED\EFGFEIP\DI\DA EKLM\TPPRKLVDLHCQDKKD
18942	49310	A	19051	1	516	IRALTMIWRRALLAGTRLVWS RSGSAGWLDRAAG\LR\DCG\TA ASGMESNTSSSLENLATAPVNQ I\QETISDNCVVIFSKTSCSYCTM AKK\LFHDM\NVN\YKVVVELDL LEYGM\QFQDASLQK*LVERTV PRIFVNGTFIGGATDTHRLHKE GKLLPLVHQCYLKK\SKRKEFQ
18943	49311	A	19052	825	1080	KRKIHQNFHKLKSLKKAIEKDYS ESGSSVNQYKRIRPTDNVVIKQ Y\WPGAVAHTCNSSTSVGQGR WIT*GQEFETSLANVVKPHLY
18944	49312	A	19053	80	429	

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18945	49313	A	19054	3	752	FKNAVGNLAMEGGGGIPLCTL KEESQSRHVLPA SFVNSLQKS NWGFLLTGLVGGTLVAVYAVA TPFVTPALRKVCLPFVPATTK\ QIENVVKMLRCRRRDPLWDIGS GGRDGIVHRRRLRRKGFTAVGF MEFKPMG*FWVFPY\RAWRE GVHGS AKFYISDLWKVTF SQYS NVVIFGVPQMMLQLEKKLRE LEDDARVIACRFPPHWPDPHV TGKGIDTVWAYDASTFRGREK RPCTSMHFOLPIQA
18946	49314	A	19055	157	829	TWGKGDPPKPRGKMSSYAFFV QTCRGG\HKKKHPDASVNFSEF\ SKKCSERWKTMSA*R/EKGKFE DMAKA\DKARY\EREMKTYIPP QRGRQKRKFKDSQLHPRRPPSG LLSSSCSEYRPKIK\GEHP\GL\SI GDVAKKLGRDVGINTAAD\DK QP\YEKK\AAKLKEKYEKDIA\A YRA\KGKPDAAKKG\VVKA EKS KKKKEEEEEDEEDEEEEEDE EDEEDEEDDG
18947	49315	A	19056	85	267	GHLSHAWCGTYKPWPSPKEQS RAWKKDGLLPFPPLFPTGLK VRGRESF*SVELIRPQG
18948	49316	A	19057	1	1158	
18949	49317	A	19058	452	517	
18950	49318	A	19059	93	1069	YEGVTT SRLPELPRGCLVLQEQ ELVQMSGMEATVTIPIWQNKP HGC/SLRSVVRRTNLPLKPCA RAS FETLPNISDLCLKRCAPSSL PWL\AWLGFLAE*KGSQKAR\ RSDTRPLRHTWKPSPLIVMQRN ASVPNLRGSEERLLALKKPA/L ASPKAALLSCRTS*ATLRTKICK DSGKLMQLRLH*RQISYLQEVQ MSLLPLPCFGSSFHSTTSFCH**/ PSPRRQRWRSLSFHQSPCFVLP ALNVANQNTKLPAVRLKRMTA SLCPRPAALQDMMGILKGLFTG MKQSQDLNRSLLKEEDPAVLIS EVLRRKFALKEEDISRKGN

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18951	49319	A	19060	162	1410	GQASCPPPALGQQTPASSYTVQ IQTYAPSSPHPRQGGPGQSSDPR GLRGAIPRGRQGGQV*QQGPRC RPPSSPVLPHIPQLSCCGHDGRD PEEGLGILELTLHHAHPWSPN SW*KDS\PSPHGEFPAHSEPHSR DQTSPMATTKEHVQPLPQASLS QPSLGIGCLVDWLRQJ.RTTQGS /PQDAAQDSTWERP*DAS/GKP WLL*PGVPTPGPPCQAKERKPP FMGNCPL*SRVPWPSRLPEEL/P AMPLAPPVAGEAAGPASSHQSL SPSQDPTPLPGADRREKERGGE EGSSWPQTPRLTTHTTSPPEKQ QQIESPPIRLSSFKTGFHLASSGH SYAIKPNSKTKAEKVGQVRVPR SHTIREQRQGRPGEHHRTER DAKPQGEEDHQATVVSQKLGT DRRLIKKQRTSVLSATAES
18952	49320	A	19061	1	340	GSVSGSGTTLNQLGFWSSPGTSP LEPPCPWLDSHIFVPFWKDVA FGEGVCLPPGAPQPRRICPRRG QQPEFQQEEPETIPERTPADPGV LPPAFPGICLPRRLRAPDPGPA A*AVPPVADA*GSVSGSGTTLNQ LGFWSSPGTSPLEPPCPWLDSHI FPVPFWKDVAFGEGVCLPPGAP QPRRICPRRGQQPEFQQEEPETI PERTPADPGVLPPAFPGICLPRR LRAPDPGPAA
18953	49321	A	19062	3	396	IPLASLHLALPGHQRGPPPGRLP SCSSQGTVPPPRAGPYQAGCPG TAPAPAPASAPWSAPQASATG GTAHAAGPGSGGARSLPPARA HPPARCWQGRPLRSLLL*PSSVP ETGGPEKARLVKALSPNTAP
18954	49322	A	19063	563	1269	LEESTGRITHFKATLHCTMSNN LAWGGTKWLQESRVFFHIRRLP SDASAGPGCVYRVVPDGGSQG RPQGAPP*AAQA/GTPRGRPP/P GAPSALLPPPSGTSVGPGLQ QRRPPTGQEDSPTEPGFWKPRL WRSHLATSLATRCTMQGEPAR AHPPGGRGPAASEERHQRGPPP GGCFAALRYCATPRPDLSGRCP GTAPAPAPASAPWTRLRHQPL AAQLMQPGQVWWGPAASW

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18955	49323	A	19064	1	1158	MELKAKARELREECRLSRCD QLEERVSVMENEMNEMKREG KFREKRIKRNEQSLQEIWYVK RPNLHLIGVPESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTTPQRYSSRRATPRHIIVRITK VEMKEKMLRAAREKGRVPHK GKPIRLTADLSSETLQARREWG PIFNILKRIFSFPQGGTGGRM VKLTAEIEQAAQYTSVARDRE LDLRGYKIPVIENLGATLDQFD AIDFSDNEIRKLDGFLLRRLKT LLVN/NNRIC/RVLDQKVK/LK ERQEAEMFKGKRGAKLAKDI ARRSKTFNPGAGLPTDKKGG PSPGDVEAIKNAIANASTLAEV ERLKGLLQSGQIPGRERRLGPT DDGEEEMEEDTVTNCS
18956	49324	A	19065	2	431	RKLDGFLLRRLKTLLVNNRI CRIGELDQALPCLTELITNNS LVELGDLPLASLKSILTYLSILR NPVTNKKHYRLYVIYKVPQVR VLDQKVKLKFNPAGLPTDK KGGPSPGDVEAIKNAIANAST LAEVERLKGLL
18957	49325	A	19066	92	303	NCFLVFSPARSTVGEFASMSSE ECI*MHVVFLPCLTLCVVSLEYR QEAEMFKGKRGAKLAKDIAR RSKT
18958	49326	A	19067	208	293	LLLLWWFPLGPTDDGEEEMEEV DTVTNCS
18959	49327	A	19068	22	904	ARNPWSTHASGWREATGFPQR GGTAGCTMGKLTAEIEQAAQ YTNAVDRDLRGYKIPVIEN LGATLDQFDAIDFSDNEIRKLD GFLLRRLKTLLVDTRICGIGE GLDQALPCLTELITNNSLVEL GDLPLASLKSVAIYLYLRNP VTHKKHYRLYAIYKAPHVRVL DFQNVKLVKIERQKAEKMSKGG RGAQLAKDIA\RRS\KTF*FPGA GLPN*PKRKGGP/SLPGDVEAIQ ECP*QNAFNSGLKVERLKGVC KSG\QIP\GRERRSG\PTDDGEE MEEDTSHQTGS
18960	49328	A	19069	1	395	AINYNEKIYELRVMETKP\DKA VSIIECDMNVDVDFAP/LGYKEPE RQVQHEESTEGEADHSGYAGE/ LGFRAFSGSGNRLDGKKKGVE PSPSPIKPGDIKRGIPNYEFKLGI EAGGRFVAFSGEGQSLRKKGR

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18961	49329	A	19070	1	1108	
18962	49330	A	19071	353	693	GSLFLVKRREPER/QVQHEELTE GEADHSGYAGELGFRAFSGSG NRLDGKKESPSPIKPGDIKRGIP NHEFKLGKTPFIRNACPLVKKF EEDEAGGRFVAFSGEGQSLSKK
18963	49331	A	19072	2	1112	RLGAAAAAAAAAGRAVGGVSSL HCPERSGVCQVVSIMFSFNMFD HPIPRVFQNRFTQYRCFSLS\M LAGPND/SSIGEKEGKIIMPLG PGTKLSRL*HYRIPMLFK\LTNK NSGPHGRHCGVAGSLWA**GA SAYLPHWDDGRTYSLGRKAA WVQGGRSVNLSSGPLISNFQPQ SP\DFL\DITNP\KAVFEN\ALRNF ALS*PPGDVIAINYNEKILRNCV VMETQTPTRPVSHH*SVNH*TV EL*LLPPGATKEPRKDQVQP*G VRTEGESRPHSGYAWKSLGFP RFSRGS\NRLDGKKKGVEPSP\ SPIKPGDIKRGIP\NYEFKLGKIT F/VSRNSRPLVKKVEEDEAGGR FVAFSGEGQSLRKKGRKP
18964	49332	A	19073	1	415	SGGGRNRSATGSWVGTMAGIT TIEAVKRKIQLVQQQADDAEER AERLQREVEGERRARE\RGMK VIENRALKDEEKMEQLQELKE AKHIAEEADRKYEEVARKLVII EGDLERTEEPSLSWQESKCS\EL EEELKNVT
18965	49333	A	19074	1	421	
18966	49334	A	19075	3	388	
18967	49335	A	19076	1	1332	
18968	49336	A	19077	49	483	
18969	49337	A	19078	227	1030	AVSWVGTMAGITTIEAVKRKIQL VLQQQADDAEERA\ERSQREFR EERRARE\QA\EA EVASLN\RRIQ \LVEEEL\DRAGERLGHCPCCKL *RS*KKLADESERRY*RLFENR ALKRLKEKIGTSREIPTSKKPKH HCRKEAD\RKYE EVARKLGDH LKEDLERTEVERA\ELAESRC*EI DEQIRLIDQNLQCLSAEDKYS QKEDKWEEMKILTDNLKEAE THAELAERSVAKLEKTIDDLED KLKCTKEEHLCTQRMLDQTLL DLNEM
18970	49338	A	19079	50	864	
18971	49339	A	19080	1	1014	

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18972	49340	A	19081	1	1650	MGFHHVGQAALLELLTSGFSQT QELQKFLFLLFLLVYVTTIVGN LLIMVTVTFDCLHTPMYFLLR NLALIDLCYSTVTSPKMLVDFL HETKTISYQGCMQIFFFFHLLG GGTVFFLSVMAYDRYIAISQPL RYVTIMNTQLCVGLVVAAWV GGFVHSIVQLALILPLPFCGPNIL DNFYCDVPQVLRRLACTDTSLE FLMISNSGLLVIIWFLLLISYTV ILVMLRSHSGKARRKAASCTT HIIVSMIFIPCIYIYTWPFPL MDKAVSISYTMTPMLNPMIY TLRNQDMKAAMRRLGKCLKG PAVAVGPGPGPDAAEAAEER RVKVSSLPYSVDALVSDKKPPK EASVPKASASSGATLRLLLP GHGAREAHSPGPLIKPFETASV KWENS\QDGAAWMQEP*\YSP PPRHK\HKTNPKPRTAFTTSQLL ALEGKLLQKQYLSIAEGADFSS SPNLTETQVKILFQNRRAKTKR LQESELEKLKMAAKPMLPSSFS LPFPISPLQAASIYAASYPFHRP VLPIPPVGLYATPVGYGMYHLS
18973	49341	B	19082	62	440	
18974	49342	A	19083	1	902	METEALMPGLGVAVAGAQVTL GFLALETQLPFTGHKRILRLFFS SPRDPHVPSKGLKRKWGARR GRTFALREAEPQRLPSLSRAFG TLARPYARLVRPGNPVVPFPLA GSAEAAARAAATCERQARTCPM PGVTVKDVNQEFVRALAAFL KKS*\VGKLVPEWVD\VKLA KHKELAP\YDENWY\TRAAS AQAPCTIRGGAG\VGSMTKIYG GRQRN\GVMP\SHFS\RGSKS\VA RRVPPKPWRG*KMVEKGTKNC GPQNLTPSRDKRDFGTEFAGQV AAANKEALEQIHCFGLIKLAHS
18975	49343	A	19084	1	673	AGPDAEASERVPEGPEAPGAGP SRPLEPRPRASGRPGHGRCLGV TVK\DVNQQEVRLHWAFLS KSLR/LRVS*TVPEWL\DTVQAG QAQKSLLPYDE\NWFYHAELAS TA\RHLYHPGSALGVGSMTKIY GGTSDETASMPKPLSARGFQEI WARRV\LQSPGRGLKMGGKRD QELRAAKLDTFKGQKRFDRI RRNRLAVAYKEALEQTMAGV NKLPPQFVKKKKK

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18976	49344	A	19085	1	427	HPVRFVHVRGPH/VDFSLEVVS QWYELVVFTASMEIYGSAVAD KLDNSRSILKRRYYRQHCTLEL GSYIKDLSVVHSDLSSIVILDNS PGAYRSHPDNAIPIKSWFSDPSD TALLNLLPMLDALRFTADVRSV LSRNLHQHRL
18977	49345	A	19086	2	832	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFVAFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLIHSHHDGVL RPTVRPGT PPDFILKVVIDKHPVRFVHGRP HVDFFL\EV\VSQWYELVVFTA SMEIYG\SAVGRLNWDNSRSIL *GGRY\YRQHCTLELGSYIKDP LLWFHSDLS\GIVIL\DNSPGAYR SHPGYGGR\DNAIPIKSWVSVTP ANTAILNLLPMLDALRFTADV SVLSRNLHQHRLW
18978	49346	C	19087	69	206	
18979	49347	A	19088	312	438	
18980	49348	A	19089	635	826	QWISLWKCYPKEESGGQYLIFL KKSIFNDEFHVKN*AS*GKEK* TPLQTSNC*GILSPGLP
18981	49349	C	19090	1	390	
18982	49350	A	19091	336	551	ARPLGSLASAPFPAPM*NVYPT GP*\YNADCPNVTAPVCASNGH TFQNECFFCVEQREFHYRIKFE KYGKCD
18983	49351	A	19092	76	309	KGRFVIALTFTT*HSNLEKSCSK ICKIK\NKS LVCKHQLAKSIQSPS **WNGMNN*FTTLFICCHNTEK TFIHCGKRP
18984	49352	A	19093	181	447	NKYQTDNIKLSNDLTIGHQTG NTTAHC/RYIMLFRSFQQMAITT ILS*YRKNIYPLWKETLKR MWQ RHREKVGSFEKVNDIKILFHHW
18985	49353	B	19094	1	639	
18986	49354	A	19095	1	160	NLHSQMLWNQRIR*LTSV*LLEL LCKNPNRVATRDQLLCLSGHL GMGRILELGG
18987	49355	A	19096	2	456	YKNTITDYEHLYAHKLENLEE MNKRRASTICTETIPKKLRRRD SSLTHSMRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGALW LPHFQTESDPGSKPAITLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSCITST

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18988	49356	A	19097	138	1193	LCFFGQHAPIYCSLRHSLLSYTR PASLICCLPGSHRYLEFVLLLLK HHRLHEDLNHCPIGSRSGRDVR SQTTEQEHVIAMPFPLRKLEPL HSGLYSHSCCSRYLAGWLALA TGGAARSPPAISILQPQEPSVTPS DTQRACGRSTEAFESKEQKASV RVETTVSFSCSIKVDGGLLEPKR ADTGWHGHHCRPASITPAGWV PARYLLYVFFSRQCVLSMVCGP QYTRGEIPGAVLKEECLPSLLT GRFDLSGRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGV LW LPHFQTESDPGSKPAITLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSANTLLL
18989	49357	A	19098	3	247	
18990	49358	A	19099	1	1048	MQLKPM EINPEVSARCTATTRA RGRGRGSRVADRFGFAFFFAFA FQMLNKVLS\RLGVAGQWRFV DV\LGLEESLGSVPAPA\CALP ACLFPLTAQ\HENF\RK KQIEE\L KGQEVSPKVYFMKQTIGNSCG TIGLIHAVAQ*SKTNLGFEDGS VL\KQF\LSETKKNVPLKDRAKC F\EK\EA IQAA\HECRGTRKGQ CRVDDK\VNHFHYSG*PTVDGP PSMNLDG\RMPFPRGPMAPS\Q GDTLLEGRFPRSCRRISPRREQR RSPASSARGFSCKGSLNALWGG TWLISPLSPQHENILPPHASLKC FSTCETQAVLLFCQTRPSPQPHP RHLSTSRVHSCPLGHCGVSFRW
18991	49359	A	19100	57	450	VGDCLTSRGM SVVQATLLAR/ ALCRAWGGT/CRGALTGTSSISQ VPRLAP\RG LHC SA/ASVSSEQS LVPSPPPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVVERDLAVYNQL LNIFP
18992	49360	B	19101	307	390	

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18993	49361	A	19102	431	1267	SGTRTTSTAARTSRTWRS*TPLL ACTPRPCGSAKLATATSRTCIRP *SPSATQTLTVTKVPLPKDSTG AADPPQPHIV/GAQGMYVSTPG IQSPDQQAALARHNPARPVFVE GPFSLWLRNKCYYYHILRADLL PPEEREVEETPEEWNLYYPMQL DLEYVRSGWDNYEFDINEGKE QHVTI/LCSSGEC*ILRRRQNV*R LLDW/LAGKALTSPTCAPKITC VPLALPTPYCSGQNLNSSCSMT SVSDHLSPVPTLLSTISKAHGTP PPNTKVVTKVTVRQ
18994	49362	B	19103	49	691	
18995	49363	A	19104	89	95	VGDCLTSRGMSWVQATLLARG LCRAWGGTCGAAL/SQEPPSLR SLASLPRGLHCSAAHSSEQSL VPSPEPRQRAHQGSWCPLR/VP VLGQGAGLGERGQGRAFL/LD GCRNLRTTSVRKRGPV/VDLFY LALRKMREYGVVERG/DLAVYN QLLNIFPKEVFRPRNIIQRIFVHY PRQCECGIAVLEQMENHGVMP NKETEFLLIQIFGRKSYPMCLKLV RLKLWFPRFMNVNPFVPRDL QDPVELAMFGLRHMEPDLSAR VTIYQVPLPKDSTGASKIPPKPH IVGI/QRSPDQARPLARHNPSR PVF\VEGPFSLWLRNKCVCV/Y HILRADLLPPEERVRA*SKACV GAGEWAGTTLRVHGRGWRE TERALASDPACTPHLGEEVEET PEEWNLYYPMQLDLEYVRSGW DNYEFDINEVEEGPVFAMCMA GAHDQ\ATMAKWIQGLQETNP TL\AQIPRGLSAFAGSTRKLQTS SAGLEEPP/HCPRTTKEEDDNLQ RQSRAQS*SPCAGIRAQQQDRA GLESAAGRVSR

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18996	49364	A	19105	1	1199	EFGALRRTRLGSSFPRRRDSSA MESYDVIANQPVIDNGSGVIK AGFAGDQIPKYCFPNYVGRPKH VRVMAGALEGDIFIGPKAEEHR GLLSIRYPMEHGIVKDWNDME RIWQYVYSKDQLQTFSEHPVL LTEAPLNPRKNRERAAEVFFET FNVPALFISMQAVLSLYATGRT TGVVLDSGDGVTHAVPIYEGFA MPHSIMRIDIAGRDVSRLRLYL RKEGYDFHSSEFEIVKAIKERA CYL\SINPQKDETELEKAQYYL PDG\STIETGPSRFRAPPELLFRPD LIGEESEGIHEVLVFAIQKSDMD LRRTLFSNIVLSGGSTLFGKFGD RLLC*\VKKLAPKDGRIRISAPQ ERLYSTWIGGSILASLDTFKKM WVSKKEYEEDGARSIRKTF
18997	49365	A	19106	1	3288	MPSGGDQSPPPPPPPAAAASD EEEEDDGEAEDAAPPAESPTPQI QQRFDELCSRLNMDEAARAEA WDSYRSMSESYTL/EGSGLWLP RGLFGHPGHCTGLLLLLRSGCV RSQPSDRACR*EK\CHSSHIEFF NKMKKWEDMANLPPHFRERTE RLERNFTVSAVIFKKYEPFQDI FKYPQEEQPRQQRGRKQRRQP CTVSEIFHFCWVLFYAKGNFP MISDDLVSYHLLLCALDLVY GNALQCSNRKELV
18998	49366	A	19107	56	3552	GPAAQGCAMPSSGGDQSPPPPP PPAAAASDEEEEDDGEAEDAAP \PAESPTPQIQQRFDELCSRLNM DEAARAEAWDSYRSMSESYTL EGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSE QSLIEFFNKMKKWEDMANLPP HFRERTERLERNFTVSAVIFKK YEPFQDIFKYPQEEQPRQQRGR KQRRQPCTVS*NFSIFCWVLFIC AKGNFPH*LSDDLVSYHLLLG ALDLVYGNALQCS

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18999	49367	A	19108	1	1193	GRRRRFWWRKRIGGGGGGMA MPAEAPWMASFFNGFLSLPPG WLLPPPSDRNPPLQPSSRPPLC VRMWMNAFTPLISLFFWASLV SSGARRLHPIQPQPCREQAMP APGAARSAVAASMSDCTVAGP CTGSHTPCHSTSDSQSP/CGGVG SSLVV*AERSCAQCRMSPRKGH \\CCCCCCCCCCCC/SCCCYCHYC CCYCCCCCCCCCCCCCCCCCCC CCCCCCCCCCCCCYCCRCYCCC CCCYCCCCCCCCRCCCCCCCCRC CC*HYCCCCCCCCF/GCCCCRYC CCCRYRRCYCFCCCCCCCCCYC CCC*RTAHAWPSMNKSQCVLP/ CICKVPLGRLAVTTGCPGFG*G GCWEDCMFPAKGPSIRLEQWFS TTAILLPSPGDFWQYLGTLV VTTREEVLLESGG
19000	49368	A	19109	1	762	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADRVPKASQKIFVALS\TGEKG FWL*GVPCFHRLFP\GFYVSRGG DFHTAINGTG\GKSILWGENLK DENFILKHTG\PGI\LSMANAGP\ NTNGSPVFLTSTCTA\KTEWLDG K\HVVFVG\KVKEGMNIVEAMER SLGPRMGKT\SNKFTIADCGQL RIKFDLVFYL
19001	49369	A	19110	95	240	LHSEITVCL*GSEHHFFENGTYI PHRSCHDPLEARAEDFL
19002	49370	A	19111	1	1644	
19003	49371	A	19112	237	632	AIGFPSYSSMQLVNIFGLLNLFSL ISSSFRHQG*HS*ELP\YPLEPGA EDFLR*GP\LAGHGHTGSQPFFC RVSEA/CGSHLVNSSRAALKRW AGV*RKIWPRGSPETPRNLKDL SVLEYENTPDTSGKKALED

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19004	49372	A	19113	274	2704	GISVLHGCGYRFQPRGMAAPGP FSEKPVPGCDAGDLQTPALSSW TQTFIISHEQGKFLNQRWSCWS KERNHGHCRVRGHVTAACQDL FGNGLKHNLDLHIHDRNDASK NVKKSTNYGKMSFYTYCECTP TGEKLWDHNQHRKIIGYKPASS QDQKIYSGEKSYECAEFGKSFT WKSQFKVHLKVPTGEKLYVCI ECGRAFVQKPEFITHQKTHMRE KPYKCNCGKSFFQVSSLFRHH RIHTGEKLYECSECGKGFYNS DLSIHEKIHTGERHHECTDCGK AFTQKSTLKIHQKIHTGERSYIC IECGQAFIQKTQLIAHRRHSGE KPYECNCGKSFISKSQLQVHQ RVHTRVKPYICTEYGVFSNNS NLITHEKIQSREKSSICTECGKA FTYRSELIIHQRIHTGEKPYECS DCGRAFTQKSALT VHQRHTGE KSYICMKCGLAFIRKAHLITHQI IHTGEKPYKCGHCGKLFTSKSQ LHVHKRIHTGEKPYMCNKCGK AFTNRSNLITHQKTHTGAEKIFI CSKCGKAFTQRSDLITHQRIHT GEKPYECNTCGKAFTQKSNLNI HQKIHTGERQYECHECGKAFN QKSILIVHQIHTGEKPYVCTEC GRAFIRKSNFITHQRIHTGEKPY ECSDCGKSFTSKSQMT\EH* A\ V HSG* KPYV\CAECGKA FSGRSN LSKHQKTHTGEKPYICSECGKT
19005	49373	A	19114	3	180	
19006	49374	A	19115	95	433	PVLRTHPGPQSLPRVPGVPCGG LLEPLSRAEVSPRLGLRRDLLG GMAPSGSST\VF\LLALTIIASTW ALTPHYLTKHDVERLKASLDR PFTNLESAFYISIVGLSSLGAQVP
19007	49375	A	19116	196	706	ISISNETKDLLAAVSEDSSVTQI YHAVAALSGFGLPLASQEALSA LTARLSKEETVLATVQALQTAS HLSQQADLRSIVEEIEDLVARL\ DELGGVYLQFAEGL\ETALFV\ AATYKL\MDHVGTEPSIKEDQV\ IQLMN\AIFSKKNFE\SLSEAFSV\ ASAAAVLSHNRYH

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19008	49376	A	19117	275	2192	MVVSPQGSSTVFLLALTIIASTW ALTPHTYLTKHDVERLKASLDR PFTKRLCFSWFTTCVTT*H*LFP TV*KACTYIRSKSLPCLPQIAKT CSKTLCLPILS*ISISNETKDLLL AAVSEDSSVTQIYHAVAALSGF GQVREGVSG*NKTCHSLGFYSL PSRTVDSGSCISFLLLLDIQHISV LLWQDLVARLDELGGVYLQFE EGLETSTAVALPPSQQRKRNSCI SHFFQDQVIQLMNAIFSKKNFE SLSEAFSVASAAAVLSHNRHPR NKILCSCSLCCNK*FFIYFQLQV TNVLSQPLTQATV\KLLFVISMT F/RT*VLAKPIVILNRDVFELNF MNVKFYICM*IPHPIDLATVF SIFL*LRVKISTDIFSACSQRYTD PL*RLTLYASFRVTYPKAKAGT FIADRDSMLGPGRILKLSDERL YYSSI*TFVRLHNQKTGQEVVF VAEPDNKNVYKFELDTSERKIE FDSANIIY*VSPTSLPLCFYRLSL FF*ADVVINPGIHGCPYWEGHIL KSSWCVFRQHLPREPEKSWHG LCCFPFKF*CLFNLFLPIQWILT FLNRRASLCFI*LDVMTPLLA MLGLMYVYWTQLNMFQTLKS LAILG\SVTFLA\GNRMLA\QQA
19009	49377	A	19118	3	413	PRKEAPSTFLSQ\NLFTPKQEIQ\ HLFREPEKRAPPTVV\NSNTFTALI LSP\LLLLFALWIRIGA\NVSNTFT FGLPST\IFHWG\HAAMLG\LSM YVY*TQAQPCSQTLEVPWPILG QCDRFLAGQSGMLAQRTAVQE NQHN
19010	49378	A	19119	2	535	GRVDPKAKKEAPAPP*SLKPKA *AFKGPRKAVLK\GV\HSPQKA GRSRTSTPPFRAGRKTADSRR PAPKIILRKS RVPGGNKLD\HYA VIKFPADH*SASAVKKIEDN\NT L\VFIVD\VLKANKH\QIKQGCE RSLYDI\DVGGQGHWPWRPD\GE KKAYCSTWLLDYDGFGMFAN QNWGSI

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19011	49379	A	19120	159	801	GAAGRRRLPEGEDEASAWR RLARCLMPKKNRIAIYE\LLFKE G\VMVAKKDVBHMP\KHPE\LA VKNVPQPFMVMKGHAGLSSPR G\YVKGTSFA\WRHFLTGTLTQ* GVSQYSPWITLHLAPGRFVPCP PLRPVARPRRMGRP\RPKKVLG GVEATWRGFHKGGEV\DRGYL TRRSACQQLGA\DKKSRGWGL GSSNPNFQFRG\GF\GCGRGQ\PP
19012	49380	A	19121	334	989	EPPAETLPVAARDPTGLSPTYLS SHKHEKFQQVRHFPVLLGYPIA SSGASPEVRQRRRTTFFRFRPGES LCGDMKLLTHNLLSSHVPAGG SLPFSGGMVGRGPVLA*TP/LAL QATEGR\ICPVEINPQLRGRVMI P*KWKWS\AF\LEAGPDKLAV*I PGARKGPG*GDMRENEEFS*GP WHHLACWEVGSD*EGTL\QVP GNLGRYFSPFKPRGSPNMLAE
19013	49381	C	19122	61	177	
19014	49382	A	19123	4	191	
19015	49383	A	19124	1902	2187	
19016	49384	A	19125	55	340	GELVLKALSAFIRAFRCPAEGS DPVGRAADPSPPAPRGISQGGG ACGSPFLPGPITESLPLPPGLGSG SELPSLYLVSGIYGGVRRGPPA RLEA
19017	49385	A	19126	1228	2447	TSQGSSPPAHIGRWSSNHKKGL GSSFSQSCCKAEALVKNAWPPT QA*VSICCFEQDLGRGQKQKGS GGKWQKTAESREAVTECPACY RAARCRAAGDRGLRAEGAAAG HTASPSAYRVRGERGHRDMHS ASARLSHPGETNLMLGLAEPVS TSH*SHPFQRS*LP*QAGP**EM/ PLPPSARDSSDLCSG\SPSHDLLP LPNTVIFWGPSSPDWQPLPLSP FCVVSQAAGSPCSPLLQGLEPGGI STSCPPGPAPYIDFGAVSGAGQS AAQRGAHFPAAMAERPSAGTS GSSGISGAIAATVVSWSVAEGEQ AVKCLAEGSTRQTGQPSRRAPS RGCPAPGAPPGRAAPPQAPPAA PAAGGGRGPPAAPRAPAPRPQP QGAPRPVSPCRGTGAAPPPTLV WGLSSEAEG

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19018	49386	A	19127	164	563	CEAALKGDSGGSPWPDEKPKE GVKTENNDHINLKVDGAEMVT VV\QFKIK\RHTPL**T*LKAYL* TDRGLSMRQIRFRI*PGNPIN*K QTHLHQLGNGRIEDYNLMCFQ QARPGGVYLKKGTCFFYSKNS VSF
19019	49387	B	19128	166	426	
19020	49388	C	19129	76	285	
19021	49389	A	19130	3	179	
19022	49390	A	19131	93	172	
19023	49391	A	19132	1	2742	
19024	49392	A	19133	1287	2571	ILRQWLLASPEEKTGRPALASG SAETLSWLRAQGREPRGPA*SA VGAHRTRTAPGSDPRCGILPS GRSPSP/PARLFLASVPATI*AM TPSPTRLPAWPPPCRG/PDASPE VVRKGGKAGQPRGSPQPWRSG AEEIVEVGLLPLTPRALLFPQVP TALPAVYHFLAACEGICPHSCA APSMIELWDFLIQQHQPEKAVA CTTTHIPGLRISALNKHRAWGG TDDDVAASEMPLGAAGAEPW D/VE*LLPAALKIPTGHTATTSW GAGP*SPQGSCKG\SGVGSGAT ADLLAPTAGVGTSRTACGGGT QFMSEGAPGVMNNGSPDWSST QFMSEGAPGVMNNGSPDWSSN LSQPQPMHLLYLTTWFLEPRM CCPDTTALTQTLVPVSFSYPVCT SHIRQNPFLHFLRAPSPHYTTA CSFEPQRFLEQQQDLL
19025	49393	A	19134	31	202	ILITYIILKLNQADFSTP*FMSHLI VSSRLCTEKWNFHFPPHF*D*Q QTFCTLQFL
19026	49394	A	19135	410	867	LLTLSRTTPLMSLGFPGIPKMIN RPRQSSPIKLQNSSLSNLLFFQ EDSSTLDSGLERSQGLDSTGGG EDICRVWTAS*SFICLSDPQKVQ IQSAPNRKAWCLVILVVVSHSS TPFSWQKVMKWIKKISFRVFAA GQGLLGGYSNPRYSFSF

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19027	49395	A	19136	111	743	VITILTPMLADRTTRRIERPPKKK GTSLGQRKWLLTQDWPSVYP VA\HPFKPSAVP\LPVARMGYPV KKGRAHGDRRGNLELLKISQFF WILTSCSNLKSTCEALKDF\CTG VGQPHWDSGRKKMLKKHFSN WKFGQHLDLCFHQGPSGSGNP RARVVVLKSKAFLV*I*HDHAK KTLITLVGERYCKTPDVLTIKQ NRWPLRSQITIMPVYL
19028	49396	A	19137	305	2291	YLD AEKMGQKASQQLALKDSK EVPVVCEVVSEAI VHAAQKLKE YLGFEYPPSKLCPAANTLNEIFL IHFITFCQEKGVDEWLT\TTKMT KHQAFLFGADWIWTFWGSNKQ IKLQLAVQTLQMSSPPPVESKP CDLSNPESRVEESSWKSRFDK LEEF CNLIGEDCLGLFIIFGMPG KPKDIRGVVLD SVKSQMVRSH LPGGKAVAQFVLETEDCVFIKE LLRNCLSKDGLREGGASPGSL RLAAGPPLTLNAACPLRLAVL AAMAAAALPAWLSLQSRARTL RAFSTAVYSATPVPTPSLRVDD LHLTEIVGMLDSVLT PEDSSGK YRFISGEVLCRITGCFTGVRVEA KDLFGGCCSNPNEVMVTWIKVI VEKEVWLYLRYILKALPPRTEK MAVDQDWPSVYPVAAPFKPSA VPLPVRMGYPVK*GVPMKEG NLELLKIPNFLHLTPVAIKKHCE ALKDFCTEWPAALDSDEKCEK HFPIEIDSTDYVSSGPSVRNPRA RVVVL RVKLSSLNLDHAKKK LIKLVGERYCKTTDVLTIKTDR CPLRRQNYDYAVYLLTVLYHE SWE\TEEWGKK*D*SRHGKSIY GENSSSERKYPGERFSR*KLLR KNMGN*LKKSS/CGTKEIEEYK KSVVSLKNEEENENSISQYKES
19029	49397	A	19138	3	233	
19030	49398	A	19139	1	256	
19031	49399	C	19140	5	114	
19032	49400	A	19141	8	444	TTDKEQ*EL*LLLDTE*GSYTKE CHTDSLRY*TSSTSAEDRDDSL LRRSGSYRDL*E*IPYSCRLDKD DSTDCIKLYEQILAE\NDKLKAQ LHDTNMELTDLKLQLEKATQR QERFADRSLLEMEKRERTALQR RISEMEERLQM
19033	49401	A	19142	1	287	

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19034	49402	A	19143	211	346	
19035	49403	A	19144	175	3381	EDPAAGEGMKMADAKHKRNE QLKRWIGSETDLEPPVVKRQKT KVKFDDGAVFLAACSSGDTDE VLKLLHRGADINYANVDG/LSH ALHQACIDDNVDMAKLLVDNG ANINQPVNDGWIPHAAPSCGY LDIAEFLNGQGAHVGA VNSEG DTPLDIAEEEAMEELLQNEVNR QGV DIEAARKEEERIMLRDARQ WLNSGHINDVRHAKSGGTALH VAAAKGYTEVLKLLIQAGYDV NIKDYDGWTPPLHA\AAH\W
19036	49404	A	19145	1	2406	
19037	49405	A	19146	1154	1365	
19038	49406	A	19147	1	293	MGVSVLDFSHSDKCEVASRFAS GMPEPTNIVLPKLEVADTLGGC TTIPESDLEERSVEQDSTELFTN HRHLTAETPR/PW*RLDGLHKQ VSPLQGVSE
19039	49407	A	19148	3	1290	VSQATDVEVGTDLVPSVTVKV TLQNRVILQKAKLSVYVQPPL LTCQDQTFEFMNRNPDGIPRVIQ CKFRLPLKCLPGQPSKTASHK ITIDTNKSPVSLSLFPGFASQSD DDQVNVMGFHFLLGGARITVLA SKTSQRYRIQSEQFEDLWLITNE LILRLQEYFEKQGVKDFACSF GSIPLQEYFELIDHHFELRINGE KLEELLSERAVQFRAIQRLLA RFKDKTPAPLQHLDTLLDGT YKQVIALADAVEENQGNLFQSF TRLKSATHLVILLIALWQKLSAD QVAILEAAFLPLQEDTQELGWEE TVDAAISHLLKTCLSKSSKEQA LNLNSQLNIPKDTSQLKKHITLL CDRLSKGGRLCLSTDAAAPQT MVMPGGCTTIPESDL*ERSVEQ DSTELFTNHRHLTVETPRPEVSP
19040	49408	A	19149	48	642	WNSALREPRNLNGADMAKSKN HTTNQ\SRKWP\RNIGIKP\RSP KIRILLKGVAPPSFL\RNMRFAQ ESPNKKGP*RLQANKLPRAMS ATLPRAIKA\LVKPQGGLSPKIP KGVSSRKLDSTCLTFAQPQALG SVARCP*LPRGPRL\CPPKAKAK AKAKPRPKPRPRAKDQNGPG LQPQASVPAQ\APKRTQAP\TKA SE

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19041	49409	A	19150	1953	2447	WTPQYMDTEYKNGPWMM EK KVWLDP/NETNEIPNANFRQQIR KLIKDGILRHRKPVTVHSRAQ CWKSTLARRKGRHLGIESKKID RHMYHSLYLKLGKGNVFKHKRI LTEHSHKLKADKARKKPLADQ AEARGSKTKEARKLREEHLQT KKEEIIKTLSQEEKAKK
19042	49410	A	19151	1	693	MAVMEKLYWVNREESYASLR VHLPICNATTMSMLSQKRLAS SVLRCKGKKVWLDPKETSEIAN ANSHQWIRKLIKDGILHHPVTV HS/*ARYR/KNTLACQKGRHMG I*KATANARMPEKIMWMR/RM RILCQLLRRYCDSSKIDHHMYH RRYHESKKVDRHMYHSLYLKV KGNVFNKRILMEHIHNLKAD KACKLLADQAETRRSKIKEAR KHREEHLQAKKEEIIKTLY
19043	49411	A	19152	34	280	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSRY/RC RYHSLYLKVKGKGNVFNKRILM EHIHKLKADKARKKLLA
19044	49412	A	19153	2	625	HEAMSMRLRLQKRLASSVLRCG KKKVWLDPNETNEIANANSRQ QIRKLIKDGILIRKPVTVHSRLR CRKNTLAR/*KGRHMGIGKRK VPANA\RMPEKVTWMRENEG FCRRLASEDTRES\KKIDRPHVV TALYL\EVKGNVFNKRIL\ME HIHKLKA\DKARKKL\AD\QAE ARRSKTKEATKRREERLP/ARPR KREII*TLSKEEETKK
19045	49413	C	19154	154	291	
19046	49414	A	19155	3	253	
19047	49415	A	19156	2	474	FKDKQNKPTGFALGSIEGRVAI HYINPPNP*V*LCQLADFTGLFL TKEDLHEPLSFSKDNFTFKCH RSNGTNTSAPQDIYAVNGIAFH PVHGTLATVGSDFRSFWDKD ARTKLKTSEQLDQPISACCFNH NGNIF/AYASSYDWSKGHEFYN PQKKK

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19048	49416	A	19157	97	1728	IRGFFRGSQGSFYRRLKEASGS WDFCPRSWPSSLRARSQSQTPE TLLLPAQVFRSETPMFKMSLF GTTSRFGTSGTIMFGSAT\TDNH NPIEGY*K*HSFSLMDSIG\CSC FSPPTLPGNFLIAGSWANDVRC WEVQDSGQTIPKAQQMHTGP VL\DVCEWE/SDGGSKVFT\ASCG \KTAKMW\DLRQ*PRRLQIAQH\ DAPV\KTIHWIKAPNYSCVMTG SWDKTLKFWDTRSSNPMML QLP\ERCYCADVIYPMAVVATA \ERGLIVLIQL/ERIQPSEFRRIES L\KHQH\RCVAIF\KDKQNKPTG F\ALESIQGRVAIHYNPPNPA\K DTFTFK\CHRSNGTNTSAPQ\DI YAVNGIAF\HPVHGHPCNCGD LDGRFSF\WDI\DARTKLKNFRE QLDQP/LSSAC\CFNH\NGKHILP YAS\SYDWVKGDH\EFYNP\QK KKFTFFPA*MQAEELKAPGNKE VVAGRTLGSASLFLHSGSLIS VRIWAPNLVGVVSPWTMEFQP PGENDVIVQQLESPPRPPAGDLP VFSIPTGLVAEVFSGKPKGGLK
19049	49417	A	19158	1	1254	
19050	49418	A	19159	1	921	
19051	49419	A	19160	1	1386	
19052	49420	A	19161	49	731	

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19053	49421	A	19162	61	1533	PLKAKMGKEKTH\NIVVIGHV DSGKSTTTGHLIYKCGGIDKRTI EKFEKEAAEMGKDSFK\FAWV LDKLAERERGITIDISLWKFET SKYYVTIIDAPGHRDFIKNMITG \TSQADCAVL\IVAAGVGEFEAG IS\KNGQ\TREHALLAYTLG\VE QLIVGVNKM\DSTEPPYSQKRY EEMWLREVSTF\IKKIWLQPPTQ *HFVPISWFGIGDNMLEPSA\N MPWFKGW\KVTRKDGNASGTT LLEALDCILPPTRP\TDKPLR\LPL QGVH\KLGIGTVSSAPMET\GF SNPGMV\VTFA\SSVTTESKIL SKMHP*SFEVKLLPGDQCGPSM SKNVFCQGMFRRGKRLLDGQQ KMTTPNGKAAGLHWSRVIL\N HPRPK*GAGPMPLYLDC\HTGS HLHAKFAELKEK\IDRR\SGKKL EDGLKFLKSGDAAIVDIVPG\RP MCVESFSDYP\PLGRFAVRDMR QTVAVGV\ISKAVDKKGWCWEL GKVTKVWPRKAPEG
19054	49422	A	19163	1	514	EFGTRAKKEAPAPP*SLKPKRK AFKGRKAV\LKGV\HSHQKEE DPARSPTFPGGPKTLR\LRQP\K YPRKSRVPGETRLDHLCLS\NF PLTH*VLPMKKIEDNNTLVFIV DVKANKH\QIKQAVK\KLYDID VAKVNT/LWIRPDGEK\KAYVR L\APDLPIAFGMFANKIWGFI
19055	49423	A	19164	433	1015	GLISNLDMASRGAS*PTGPD TG NKICQFKLSTSGESPAVCKSSLV LRFVKGQF\HEFQESTIGAFLT QTV\CLDDTTEKFEIWDTAGQE RYHSLAPMYRGAQA\AIVVY DITNEESFARAKNWVKELQRQ ASPNIVIALSGNKADLANKRAV DFQEAQSYADDNSLLFMETSA NTSMNVNEIFMAIGKINISF
19056	49424	B	19165	1	2511	
19057	49425	A	19166	2	360	

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19058	49426	A	19167	125	211	FRPGSPRQPRAQPI SAPDCTRA MVGRRAL\IVL\AHSERTSFNYA MKEAAAAA\KKKGWEVVE\S DLYAMNF\NPIIS\RKDIT\GKLE GPLRTFQYPGRSLFLAYK\EGHL EP/EIICGLNKKKLEAADL\IFQ FPLAVGLEVPAIL\KGWFEPVH KESFA*HFTAGHVMDKGPFPG VKKAVAFPFTTGGSGS\MYSC QGI\HG\DMNVILWP\IQSG\ILPF LGLPKSLDPQLT\YSIWPLPAR RPEFSILE\GWKK\RL\NIWDET\ PLYFAP\SSFLDLNFQAGF\LMK KEVQDEEENKKF\GLSVG\HHL GKSIPTD\NQIQS*KRECTVHYT RDSHKVAAGAAQLTESLVPAR VAPATTSPANQRPGLHQSHGR
19059	49427	A	19168	2	331	WVDSQQK\RYVPVKGDHVGIV TAKSGDIFKVDVGGSEPASLSY LSFEGATKRNRPNVQVGDLIYG QFVVANKDMEPEMVCIDSCGR ANGMGVIGQDGLLFKVTGLIR
19060	49428	A	19169	145	350	QEFHLSSEPSIRLGRSLYHIHHL FASKKVLD*QWLDQSL*VCSW EHMRRSQ*GIFSRLANRGFQNG DC

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19061	49429	A	19170	1	1863	MAVAIRLSADTQWEDSPGKSIL ELHMSCTKIPERCEADKKESTS SWCTRKIRFRMDLEKECKVLLS GGGGSRMGSQKGDGVGRWSSP RVGLPSSQTLLRPPPTDFHIAPL SKARQHLLVSVSVLFCFSAPLD VQPLKVLDECQNQRACHLLVN SRVFGPDLCPGSSKYLVSFKC QPKQMFTQQGPGPVLSIGETQV STSSVTRSSSPVGPDIHCEFHTN MCKIPDELKNKTVCEDQELKL HCHESKFLNIYSATYGRRTQER DICSSKAERLPPFVFTRYCYFLY APVSSIANPVKGCFLGKKQDC LSYSALQVLSRRCYQKQRCII VNNHHFGSPCLPGVKKYLTVT YACATLSSMGPIAEVPPEAKK VTLSTSLDSSSGRMEDGRLDTG HTEVPVTSGLFIRVLNKKQNFS LQIRCSFGRGPGKLRHCWAGA AIALGTEYILVKGDQVTGIVTA KSGDIFRVDVGGSEPVSLSYLS FEGATKRNRPNVQVGDLIYGQF VVANKDMEPEMVCIDSCGRAN GMG\VIGQDGLLFKVTGLN*E SLLASQICE/ISIQEVGKL\LPLEI VFGMNGRIWG*GQKTHPSQTLI LA\NIL\EACEHMTSDQRKTDLP
19062	49430	B	19171	29	82	
19063	49431	A	19172	1	427	

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19064	49432	A	19173	1	1548	MTMAAAAVVARGAGARAATA AALRGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMLRRIKED DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVRKTLDMIK KIADDKYNDTFWKEFGTNIKLG VIEDHSNRTRLAKLSRFQSSHH PTDITSLDQYVERMKEKQDKIY FMAGSSRKEAESSPFVERLLKK GYEVIYLTPEVDEYCIQALPEFD GKRFQNVAKEGVKFDESEKTK ESREAVEKEFEPLLNWMKDKA LKDKI*K/ALWVSSAALTESPVL LLVAQPVRDWS\GQHWERIMK AQAYQTGKDISTNYYA
19065	49433	A	19174	37	266	WADRAAGGVRILTQGCVGGG GSCDRRGLETSPARTPVRLWV LG\LCCVLLTFGSV/READDEV VDGT\VEEDLG*KYEKDQVTDD EVVQREEEAIQLDGLNASQIRE LAREKSENFPPQAEVNRMIETLF IQFHCIKNKEIFLERLISNSSCAL DRLSLISLTDENALSGNEELTV K\IKCDKEKNLLHVQHTGVGM TREELVKN\LGIA\KSGTKRVF *TKRPEA\QEDGPSQPS*IDWPS LGVR
19066	49434	A	19175	233	664	RAPEQSSGVSAAEQERVNAG WPCSVAPTCPSRSAEPARCT* GKEEGG/CEDSDRADSGSPFQE PRYPSSGPFPIQASFPCLLV GIRGHSTILQYRGQEHVLF TG RCLLVDPDLLVLLVSKSPNAA RDQPARYPGRPL

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19067	49435	A	19176	1	672	MAEAGPKPQRTLMWAWESVL SQRKPREAGRLSEGCVKATGTP GFGWQARPDQKEHRLDGRVID PKDRHGLVKDTEPRLNEQSLCG GLNPEATEEKIREYLASLGRRR PVKKVLEKKFHTVSGS/KCGPQ VPPSWSETYRTRA*SGDQLGTP AAPNPRWPME*EQEIEAQRSA HSGARAPWPPWPPRPDGP GNP GPKFMVSLSCWNISL RAGLLY AGCGCSP
19068	49436	A	19177	3	684	RHASARKKYNPPSWFHRGLPPP EDQEDEMVSSEEL\PITLTPSSA LKPSDRMTMSSLGERACCRDY QRLGLGTLSSSLSRASEPFRIS PVNRMYAICRSYPGLLIVPQSV QDNALQVRSCYRQNRFPVVC WRSGRSKAVLLRSGGLHGKGV VGLFKAQNAPSPGQSQADSSSL EQEKYLQAVVSSMPRYADASG RNTLSGFSSAHMGSHGWGSV RTSGRSSGLG
19069	49437	A	19178	1	341	
19070	49438	A	19179	1	3710	MVSGARAAAAAAAAAAAAAER TRGVPGHPDSTGRLPAHQQLQ RGLLFRQLGITNVLSLVCATLM EHEVLFLRSYQQLTDACRSLL ALLFPLRYSFTYVPILPAQLLEA LSTPTPFIIGVNAAFQAETQELL DVIVADLDGETVTIPECVHIPPL LEPLQSQTHSVLRMVLDPELEL VDLAFPPPM/HDKELRLFHQLL QGYLWCLHVVCIHPEPVIRFH KAAFLGQCGLVEDNFLMNVLE GMAFALFVLECGVP
19071	49439	A	19180	1	303	
19072	49440	A	19181	14	942	TKLTGSRG*LA*NPCM/HNNCE SCVDLLFVRGAGNCPECGTPLR KSNFRVQLFEDPTVDKEVEIRK KVLKIYNKREEDFPSLREYNDF LEEVEEIVFNLTNNVDLDNTKK KMEIYQKENKDVIQKNKLKLT REQEELEEAL EVERQENEQRRL FIQKEEQQLQILKRKNKQAFD ELESSDLPVALLA QHKDRSTQ LEMQLEKPKPVKPVTFSTGIKM SVGITLCPAEEHTFNDERSFNLS SSWSKFNKPPSTLPFKVLDEER LVELKVPNTLITKLVFPAISPCS EAIQDHPAILLAYKKT PFWRLQ
19073	49441	B	19182	49	456	

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19074	49442	B	19183	53	333	
19075	49443	A	19184	2	208	VYPELQITNVVEANQPVTIQNW CKRGRKQCKTIPHL*FPYRCLG EPAGRGAGVDWGPGLGRKRG CSC
19076	49444	B	19185	51	300	
19077	49445	B	19186	148	3568	
19078	49446	A	19187	1	3411	
19079	49447	A	19188	2	2416	NSRGAACAGPRETAAVAARAE QGRGGSHSHSSALGAPRRVAM LPG LALLLLAAWTARALEVPT DGNAGLLAEPQIAMFCGR LNM HMNVQNGKWDSDPSGTKTCID TKEGILQYCQEVYPELQITNVV EANQPVTIQNWCKRGRKQCKT HPHFVIPYRCLVGEFVSDALLV PDKCKFLHQERMDVCETHLHW HTVAKETCSEKSTNLHDYGML LPCGIDKFRGVEFVCCPLAEES DNVDSADAEEDDSDVWWAG ADTDYADGSEDKVVEVAEEEE VAEVEEEEEAD*LTRTDEDG\DE VEEEA\EEP YQEATERTT\SIATT TTTTTESVEEVVREVCSEAET GAVPSNDLPLVL*CD*REVCPI LRRMWROPEQL*HRRVLHGRV WQR\PTTAASTPDA\VDKYLET PGDENEHAHFQKAKERLEAKH RERMSQVMREWEAE\RQAK NLPKADKKAVIQHFQEKVESL *QEAANE\RQQLVETHMARVE AMLNDRRLALENYITALQAV PPRPRHVFNMLKKYVRAEQKD RQHTLKHFEHVRMVDPKKAAQ IRSQVMTHLRVIYERMNQSLSL LYNVPAVAEEIQDEVDELLQKE QNYSDDVLANMISEPRISYGND ALMPSLTETKTTVELLPVNGEF SLDDLQPWHSFGADSVPANTE NEVE\PVDARPAADRGLTTRPG

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19080	49448	A	19189	1	2355	MKSIFTSEISSVLIFVNPEPGRVV SFLGSGRREHAEERARGPRETA AVAARAEQGRGGSHSHSSALG APRRVAMLPLGALLLLAAWTV WAL\EVPTDGNAGLLAEPQIAM FCGRLNMHMNVQNVKWDSDP S\GTKCIDTKEGILQYCQEVYP ELQITNVVEANQPVTIQNWCKR GRK\QCKTHPHFVIPYRCLVGEF VSDALL\VPDKCKFLHQERMGC FAETHLHWHT\AAKETLQ*RRS TNLHDYGMMLPCGIDKLRGVEF VCCPLAEESDNVDSADAEEEDDS DVWWGGADTDYADGSEDKVV EVAEEEEVAEVEEEEADDDDED DEDGDEVEEEAKEPYEEATERT TSIATTTTTTTESVEEVVRVPTT AASTPDAVDKYLETPGDENEH AHFQKAKERLEAKHRERMSQV MREWEEAERQAKN\LPKADKK AVF\QHFPEKVESLEQEAANER QQLVETHMARVEAMLNDPRRL ALE\NY\ITALQAV\PPRPHVF\ NMLKKYVRARTEGLVSTSL*HF EHVR\MVDPKKAQIRSQVM\T HLRVIYERMNQSL\LLYNVPA VAEEIQDEVDELLQKDANYS** RLWPTMISEPRI\SYG\NDAL\MP SLTETKTTRGSSVPVNEE\FSLD\ DLEPVHFFWWLTSVPANTENE VE\VPDARPAADRGLTTR\PGSG LTNIKTEEISE\VKMDAEFRHDS
19081	49449	A	19190	103	463	PLLYAMSTGKRWLSFGSMIPPV AICASNKRIWPFSMSSLFMAW NKEMMFVSGSLYPVTARSAD RSFSLNSMPTRPLL*ASSTGNLK LLTGSTIKPVAAWASSNSRAVP GRTKPIFMAS
19082	49450	A	19191	1	182	
19083	49451	A	19192	3	437	MVHAEISDEGFFLSAPIALTQA WLNIPKT\RRTFCK\KCGKHQPH K\VTQYKKGKDS\LYAQGKRRY DRKQSGYGGQN*KPIFRKKAKT TKKIVLKALSALSPTCRSKSKC WLFKR\CKHF*TGEEIRKRKGQ VDPVLKCHLLFMEGH
19084	49452	C	19193	341	421	

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19085	49453	A	19194	15	1066	VLACTVEASVIGGQKREMNMG SIVREGFMEEAGPRIGFNLSFFI QSTVTGSSSVGSGTQLQPLSLPPA TAGQEPRGTGPLGSHNSCPAPE PVSYGRLLNDPPATTHPGSFTRF HSKPLTSSCW DSEMEGCVSNL MVCNLAFLNVSTNPCAFFPW YFY YLLLL*AGWSPLHIAASAG RDEIVKALLGKGGVLNVYTNT DRFLHCFLLS SPSFQIAV MLLEG GANPDADH YEATAMHRAAA KGNLLARNPNHYIELVVINWSL VVPDFRHLACDEERVEEAKLL VSQGASIYIENKEEK TPLQV\AK GGLGF*YSREWVGRFKQLGFIL YFVLLCLLSPVSYKLMYLCTRH
19086	49454	A	19195	1597	1923	
19087	49455	A	19196	551	747	
19088	49456	A	19197	1059	1296	
19089	49457	B	19198	1	1281	
19090	49458	A	19199	3	565	LPGRLLLLNFRQRRQIDRPSMN DTRNLSRT\RK FHAPTRPTSEEN KWVIDVLSPAGRPTVP*DQKFR EK\LA\KMYQAPHPDV\ILVFGF\ RT\HFGGGKTTGFG\MIYDSPWI MQRKNEP\KHRLAR\HGLYEKK KDLKKATEKERQEPELKKVQG GLAKGPLL GAGQKEEMKCLAV ELEIGSQPKELKVLQ
19091	49459	A	19200	2	476	

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19092	49460	A	19201	1	2448	MRGSILKECGSKERASQVDLEY SRGNTASFAMCFHDRARIMKG SQRSRKLTTGGEGREEGERVENK DFLDLHGQIQVRLVVKTASLLS RVTYIAEVEGRETDAGWRNEL QVGRLDSGPDILVVSISTDHTLV DTHLEAVGGHSHEFPYFKNHL ACHVESELQRDRNGHRDAGWR NMRHGITDKEMQDSQGSSDNH VLGSLRSWSARAAPALPGLPEE AFVEMSTEGGFGGTSRSDAQQS LKSFWLRPRFFITELTLRAWIHT EDNNCRTYVAMAITKFDQLDF LIDIVLRDELKPPKCQEEVLQSV TPAEPVQYYFTLAQQPTAVQV QGQQQGQTTASSMTTMQPGQII IAQLQQGQTTPTVTQVGEQQ VQIVQAQPQGQAQ*AQSGTGW TVQGGIQTLSAQPIQTQEVQ QRQQ*FSQFTDGGQQLYQIQQVS IPAGQDLAQPMFIQSANQPSD GQAPRSHEVIAAAPARRERER ELAGRGPFCPPPAGNVRALKSR RCLPGERRERARKKKPEGGA ASERGETDSHPGASGQPRDSG RVPLGMWSRRGLGVSRAPLHL LLGVSTSFPLPLTPLIPTAVVN PLKPLKNRIKAPHRMPLVPGG SQNLGTVRARISTRQSHAEPST DNERVLSMTQDIHSIFLNLKNIT WICTLQSCGFLLSNLCKDIVHK AGSGEARTRWSPRAQAGTHED
19093	49461	C	19202	124	369	
19094	49462	B	19203	739	870	
19095	49463	C	19204	787	969	
19096	49464	A	19205	101	331	
19097	49465	A	19206	137	415	
19098	49466	A	19207	86	221	
19099	49467	A	19208	1	1347	
19100	49468	A	19209	120	899	FGARGNLKKAYSTRSKMAELN THVNVKEKIYAVRSVVPNKS NEIVLVLQQQDFNVDKAVQAF VDGSAIQVLKEWNMTGKKKN NKRKRSSKQHQGN\DAKDK VERPDACPLQPQPPQIQNGPM NGCEKDSSSTDSANEKPALIPRE KKISILEEPSKALRGVTGPNIEK SAKDLQRCTVSLTRYRVMIEE VDSSVKKITAFAELHNCIDKE ASLMAEMDKGIEEAMEILTAR Q/RKAEALKRLTDLAS\QMAE

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19101	49469	A	19210	211	2150	ADTKPERGVSSAVFASGSEGRRLGCVLLSSSETRLLSGTLLWIPRAYSTRSKMAELNTHVNVKEIYAARSVVPNKSNNIEIVLVLQQQDFNVDKAVQAFVDGSAIQVLKEWNMTGNKKNYKRIRSKSKQHQQGNKDAKDKVERPEAGPLQPQPPQIQNGPMNGCEKDSSSTD SAN EKPALIPREKKISILEEPSKALRGVTEGNRLLQQLSLGGNPKPIHGTTERS DGLQWSAEQPCNPSKPKAKTSPVKSNTPAAHLEIKPDEL\AKKRGPNIEKSS/VKDLQRL/CTVFF*LEYRVMN*RERKWDSSGERRSKLPFAE\LHNCIIEQKEV\SLMGRKWD*SLKEGRPWEILDWLVRKSKKKLKR LTD LGQSRMAEMQLGPKLR\AEIKHFVSEAVNYDE\ELGKSCPGFSCDIEQLK\AQIIALPGKITHPK\NNYFLKELPCSSLL\PLLNAARSKPLGKTEVTF SRKSSTHNKPSEGKAANPKMVSSLPSTADPSHQ TM PANKQNGSSNQRRRFNPQ\YHN\NRLN\GPAKSQGGSGNEAEPLGKG\NSRHGTQEGQPH/NRFGFRPKNKGRCQKIQEASLGIEGPPRAPAHFLKRPRAKGSHAADTFGRA RAFSGVS/GSVRGSQC�LFPT\RIEVSTDAAVLSVPGCDRWVA
19102	49470	A	19211	93	180	
19103	49471	A	19212	3	39	
19104	49472	B	19213	1	888	
19105	49473	A	19214	863	1509	GCAGPCLVNQMFTSSILCKSHCHSLVSINQGH NAPWKAAG\PLPLKAGYC\QSFSPCD SLKYG\SWDEKDLTVPQPDTRKASVLRWISQRGKPLAVDMEEG\HCL\CLPPGN*NVLGCKTPIVHLFNSSELGRKAALWREARHVG\SNAALLFFTPLRCLGGEKHKSGLHAHPGIVP\SLELNYDIDSFAHVVFV VAVELPLIITLLPYCIPLCCNNEK
19106	49474	C	19215	289	510	
19107	49475	B	19216	534	1686	
19108	49476	B	19217	1	1062	
19109	49477	B	19218	1	1878	
19110	49478	B	19219	1	747	
19111	49479	B	19220	230	786	
19112	49480	B	19221	67	6011	
19113	49481	B	19222	1	3455	

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19114	49482	B	19223	1	4763	
19115	49483	B	19224	65	4534	
19116	49484	B	19225	512	4782	
19117	49485	B	19226	345	2194	
19118	49486	B	19227	267	7391	
19119	49487	A	19228	578	739	
19120	49488	A	19229	419	1410	KQRQARERHLPRIQLSAVVITIE TL*RK*RNFAELKIS/RLRKKFA HKMLQKARRKLIYEKVKHCHK EYRQMYRTEIQMATMARKAG NFFVHPKPKLAFVIRISAISGVSP KWKNKQLCPLNHVFGLGMGD LRAFGLADGTGPSGGEITGMRD LRGPLSVRAPSAGVAEIPRHLIV FEDVVNGKFLQTSRCEISGSKN KVVQTLTKNKRRERQRLPTGFG RLADQRAYGEAKNCGQVGL VETLWERHLLRIGVYIATSSLA VPTLSSNYNGLAHDQSCSDTVQ RSTGAPEAWDRGYCVGRGAQG IPIFFLDRPLTSLFDEARGSSAS
19121	49489	A	19230	3	307	AGTMEGVEEKKKEVPAVPETL KKKRRNFAELKIKRLRKKFAQ KMLRKARRKLIYEKAKHYHKE YRQMYRTEIRMARMARKAGN FYVPAEPK/LAFVIRIRGI
19122	49490	A	19231	3	160	GRVLL*DKTSRGTIQQQLLFT NICCSAASA/G*YPGKQGLEWT SSRLQQTCS
19123	49491	A	19232	303	570	GLCIRHVLVPSAAGLLEFAGGP LQTLFAWVSAEAAEQQIWVN SKCC/CPDRSSGSFVSEEYLAV* GVGLTLSSASLMLGAVDWSCS HSA
19124	49492	A	19233	1	176	MQYVQOKPKLKFQVHICAYRK TVLQPPLLIPRQT/WVWSGPPA NSNRPAAGGADC*KEN

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19125	49493	A	19234	1	1977	MFAVLQAPLVIPRQT/WVWSGP PANSNRPA AEGPDC*KEN*RQT GSGVDLQQTPDQLRLVLR KTNEQKGHPHQNPICSPSSKT KVDTTTNMGEKQSRKTENSKN QSASPPNLLKKREKNQIDA NDKGDITDPTIEIQTIREYYKH LYSNKLENLEEMGKFLDTYNLP GLNQEEVESLNRPTGSEIEVIIN SLPTKKSPGPDGFTAIFYQRTK DKNHMIISIDEEKAFDKIQPFM LKTNLKLGIDGTYLKIRAIYDK PTANIILNGQKLEAFPLKAGTR QGCPLSPLLFNIVLEVLAREIRQ EKEIKGIQVGKEEVKLYLFADD MIVYLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTSNRQT ESQIMSELPVTIASKRIKYLGIQL TRGVKNLFFKENYKPLLNKIKED TNKWKNIPCSWIGRINIMKMAI VPKVIYRFNAIPIKLPMFTFTEL EKTTLKCIWNQKRAHIVKSILS QKNKAGGIMLPDFKLYYKATV TKTAWYWYQNRHIDQWNRTE PSEIMPHIYSYLIFDKPKDTRNG ERIPYLIRWCWCWQNWLAICR KLKLDPFLTSTYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTEWENISAIYSSDKGLISRIY
19126	49494	A	19235	206	456	
19127	49495	A	19236	2	385	NLCCSAASAGDTQANRVWSGT PTNSSRPEVSSGAMDGEGWGL PVDPLTPGHQDALPWQRCYHP CSSSSVPPRQACASPSCSSSAA W/TSASTGPWHSGCGSSCGSCC CWGSPSASVGVGAGAIRSRTV
19128	49496	B	19237	1	642	
19129	49497	A	19238	128	584	
19130	49498	A	19239	4054	4578	QSGPSAAGLLEFAGGPLQTLFA WVSAAEAAEQRLVNSRCCCLI VPRKFCLRGVASHVRCQSAPY DVFCGKITLAKCWCSALGLPSL QSCEPNALFFINYPVCGI/TAPCC KVEGTMGVGPSPQLASYNVL GSDNNGVLLGSMIFLILLIH EHGMFFHLFVSSFISLSSGL

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19131	49499	A	19240	1	948	MVLEKAREEVDPPSMLIPPVTQ CGQLPRSQCPQPTLSRMLTLEV GISLGIIVLMISLWPDTVKEYQS REALSFKKYNKNPGLLK FAGDP LQTLFAWVSPAEEAEQQISALC FLWKLRRPGAPTRCQPLLSYTR CLSAPAGSFVYTMRGKPPIQAS VMADASPPTKIEHPRTTSDCCV ASKNFKPVDSLCSMGVGS AE LDHWATWLQSPFQGSERFCLA GVPGTTGV*KETPAASSVSAQM AAQFCA*N/HRTL VV*APKGIL WVCGLRRPW EKRSICAGVHHS SWHSPSWLPLARGGSSSTPCTS WVRRCP TLHL
19132	49500	A	19241	171	1345	YCPKEGTLDFNFAFNMTAVNV ALIRDTKWLTLEVCREFQRGTC SRADADCKFAHPPRVCHVENG RVVACFDSLKSVTAVPFLFMAL GLSREPETVPASMVQTFSLGVG GGAGSV*PDENCKYLHPPPHLK TQLEINGRNNLIQKTAAMFA QQMQLMLQNAQMSSLGSFPMT PSIPANPPM/SFESLRYHILGMG LVPAELVPNTPVLPKPTSLQL PGSCLGPKLMAFQINWEVLPRN FQRG\NC\SRGEND\CRY\AHPTD ASMIE\ASDNTVTICMGYIKGRR TVGVWGIKAKSSKQRILDTKGS HQGNSFVRGTDYLIPICTNMSK AKGTAFLKWMQKLVYNGSSG QCSPAFFCCA WKEHSEKAGRA SGAKCNRHRHTNPVFLMREGA IS
19133	49501	A	19242	61	544	KFNP\FVTSRPRARIRKRAF\NAP \SHIPKGRLLSFPLSPKSLRPEG TNRADSHAPIPKRMIESSRLYR GHL*GSAKLAKVVPFRTRKKY VIYIER\VQREKA\NGTTVH\VGI HPSKQVVITKAKTGKTRKKIP PNRKAQSRQVGKEKG\KYKER TIEKMQE
19134	49502	A	19243	652	1042	TPLSSCFLSREKATQLLFPVVA VPMVLSAMGFTAAGIASSSIAA KMMSAAA IANGGGVASGSLVA TLQS/LG*VSWRGLPTVLPTLP RQACPTLSTLCFFPGATGLSGLT KFILGSIGSAIAAVIARFY
19135	49503	A	19244	48	397	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19136	49504	A	19245	42	296	GCVGVRPSLHPATSTASGSASP TLARAMASVSELACIYSALILH DDEVTVTEDKINA/APAEKKV EAKKEESEESDDDMGFLFD
19137	49505	A	19246	172	519	LGPSFLHDDEVTVTEDKIQMPLI KAAGVNVPEFWPG/LCFAKAL GKRSTLGSLILAMLGGPVGPGS QPAGCLQPAG\GSCPPSTCCWF QLEGEKWEAKERKIPREF*LID MGFLFD
19138	49506	A	19247	3	175	
19139	49507	A	19248	2	390	GWDWNCVWEPHHWLCQSL/N SVTQAGVQLCNLSSLQPLPLGF KQFSCLSLPSSWDYRNP SLKQQ LFSYAILGFALSEAMGLFCLMV AFL\SLPCEGAVSTSHSSPASG WPRVFLFLYLPRQPGERGWL R
19140	49508	B	19249	139	13320	
19141	49509	A	19250	28	450	TNDFNLQNP GSCFPSACPAGVG SERLPVLGWVFGNRSFPPPPQST LSVLGKRLGRNGAIAAGVFGA LFIGYCIYFDRKRLK*PQLKDAE AVQKFFLEEI*L\GEEILAKGVD HLTNPSAFFG/QPNHFPLQMDSF GPFLRFQA
19142	49510	A	19251	164	420	
19143	49511	A	19252	1	329	STHTTYWEGCRTTSAGLLRKH EPGEEAF/FYHST\SKKPGIAGLI KVN\VFVRMMKRSIPWAE LNP YHQAHKATGGPLKNMVL FTRQ RLSIQPLTQEEFDFVLSLEEKEP
19144	49512	B	19253	39	368	
19145	49513	A	19254	1014	1290	
19146	49514	A	19255	122	680	LARITRIVRTKVPCSVTMSRPRK RLAGTSGSDKGLSGKRTKTENS GEALAKVEDSNPQKTSATKNC LKNLSSHWMKSEPE SRLEKG VDVKFSIEDLTAQAKQTTCWD GVRNYQAS/RNFLRAMKL GEE\ AFFYP*QLAKKPGIAGLMKIVK EAYPDHTQF*EK\NPHYDPSSKE DNPKWSMKSLILF

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19147	49515	A	19256	2	1005	RISTSTLCPPKPKKLIAPPGRAGL ASMGLNEEQKEFQKVAFDFAA REMAPNMAEWDQKDRKADGK GGAVTQEVQAQLLVKHGQKL VSRFQLSSFSYVDSVRTTQSKQ EHLQTDKGLSGKRTKTENSGE ALAKVEDSNPQKTSATKNCLK NLSSHWLMKSEPEsrLEKGVD VKFSIEDLK\AQPQ\QTTCWEG VRNY\QARNFLRAMKLGE\AF FYH\SNCK\EPGIAGLMKIVK\EA \YPDHTQFEKKQPPPL*PPS*QR GTTTPKWPHGWMV/QVWFGMM KRFHSPLAE\LKS\HHQAHKA\S GGPL\KNMVLFTTR\QRLS\QPLT \QEEFDFVLS\LEEKEPS
19148	49516	A	19257	3	727	VRLQFLTPTLRAARTMAAPPQL RALLVVVNALLRKRRYHAALA VLKGFRNGAVYGAKIRGPSRR WVMTFLFREWAASREKLWAIL QATYIHSWNLARFVFHLTRV FRCPAVPYITRARTYPAHAFFG AGLSFGGIL\VFGRKQ*TFNSQI\ NMYLLSTRPCLP*SRLAVRRK GLHP*NPRWDPFP/VCLTAVVW GLVLWLFHEYHRSTLQPSLQSSM TYLYEDSNVWHDISDFLVYNK SRPSN
19149	49517	A	19258	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQAAFREPRLLVVTDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS\DPEEIE KEEQAAAEKAVTKKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQQSTILE AESSPHQTPNLPAPWSRTSQPPE

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19150	49518	A	19259	1	1309	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEEDVL KFLAA\GTHLGGTQFLLSRGHG YFYK GKSDGLSFIINPKRAREE\ LLLPARQIVPHKTPS\DVSVISSG NTGQVCGTVRA/VCLKFAAAT G\ATPIAGR\FTPGTFH*PRSKA AF\REPR\LLVVT*PPGADPPALS RSASYVNLPHYHLRCGNT\DS\QL RYVDIAIPCNNKG\AHSVGLMW WMLARGSFCAMRGTI\GREHPW \EVM PDLYFYRDPEEIEKEEQ A AA*E/RQVTKEEFQGEWTAPAP EFTATQPEVADWSEGVQGAPL VPYSAIPPTEDWSSQPAMEDWS AAPT AQATEWCSRTSLRQNPSD TELKKEGLYSARSISKTHVSKT ELPNQGTKKCSRTSHRQNPSVT ELKKEGLYLARSIGKTHISKTEL
19151	49519	A	19260	965	2495	AFTTRSTFSTNYRSLGVSQAPS YGARPRQAARPASYAGAGGSG SRISVSRSTSFRGG\MGSGGLAT GTSPGVMAGMG\GIQNEKETM QS\LNDR\ASYLGQE*RSLEDR RTRKLGRAKFREHFGRKKGPQ V\RDW\SH\YFKI\EDLEGFRFFR KILVGQCPASVSARFDNAPSL LD*F*EFKY*GQSWPMCPVLE NDIPLGSAKVI\DDTNYHTDLQL \ETEIRGSSRRELLFQ*RRNHEE\ EVKGLQAQIASSG\LTVE\VD\AP KSQDLAK\IMADIR\AQYD\ELA RKEPEKEA*TKYWSSADLREST TVGHPHSA*GWKLAEDDASQ KLRRTVQSLEDRPWTSMRKSE RPALENSP*GEVEAPLRPLQDW SQLQTGIPACHLWSQELGTRHR AQRGQRPQPQGV*GPLLNHQG SSLEAEICHLTRPPSWKIGEDFN L\GDS\LDERNMQTIQKTTTPP G*VGLGKVVS*DQLTPKVLKAL SQQEAVVPFWGSRRIKSFVRVQ KKKKEKESF

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19152	49520	A	19261	387	1125	CCRPCATPYALRSPLR*PACPPP RWRPSSMPTSRPPVSPAASPTC GTCMLSP\CPPAEHLLHLPHAQ QDPALLQPCHPAPPLRPRALHA AHHVGVWPAPHQPLLPPVLCPC GGAGRGGG*RCPWGPSSSSPG PTLIAGQDPGAAQP*TWQ/PTL TSVSATASPKAP\LPLAAAVPGA PAEGCCPLLRLQALPAGQLPPGG RRATSAVPPAVPGD/PPAQPTM PGSMSCWALAPARPCPPGRCW AWRS
19153	49521	A	19262	3	1097	RGNSRLRYSHDELQPLRLPEL FGNCRQLLEEVEVAT\DPAGFR\ IVQEK\VFKG\LDLLE\RAAEML\ SQSTLFGRECRFWKDLSPHLIT FWGP\AFQGALTM\KQVNPSKR LRSFCSGAREHF\NYLT\QCH\C YHVGQSFEL\PKT\MNNSAENH TANSSMAYPSLVAM\ASQRQA KIQRYKQKKELEHRLSAMKSA VESGQADDERVRGYLLHLQR W\VDISLEEIESIDQEIKILRERDS SREASTSN\SSRQERPPVKPFHS HFGTWLHSQSTFGAGYSKGWP TYGR*VSWYE\QHRKLWSTYP DQGNMPRAAPEGISEKAAQQQ EDQEEKEEEDDEPNNFHRRARE WDDWK\DTHPRGYGNRQNM
19154	49522	A	19263	2	262	
19155	49523	A	19264	3	1062	GRTAENPARAVSSPNFYAHRKT EVLFPCLTQPLARGPKKHLK\R VAAPKH\WMLDKLTRVFAPR\P STG\PHKLR\ECLSRIIFLRNRLK \YAL\TGDEVKKI\CMQR\FIK\ID GQGSELDINLPLLGFMGCPSAF DKTGEENF\RLDLIDTQGVRFC WYIRI*PPWRKAKLQVWCQK* GKILCGPTKRESPSSGLTH*CPA PHPAYPPIPPHPR*NGYIPD*I*E DLAKINLISIQSSEHW*TLCMGD LEGA*P*GRNWVLITPTERGHP GIFLTVGSR*KDANGQQAFGHF GLFQHFLVIGKGNKTHGISL\PR GKGIRLHLLLEERDKRLA\AKQ SQWGEMGSLGVDIVQIFWYRN
19156	49524	A	19265	62	298	

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19157	49525	A	19266	1	555	MAWQMMQLLLLLALVTAAGSA QPRSARARTDLLNVCNNAKHH KTQPSPEDELYGQ/SP/WMCKG SCRKTKSWNI/HRKSKCEVGLA/ WEACSVSAGTGRGPGCGRWV GAPQGP/CPRKCSSG*PTW/VQR SQNMEEMAVVNQSWRKERILN VPLCKEDCERWWEDCRTSYTC KSNWHKGWNWTSAPSAVCDP LL
19158	49526	A	19267	216	974	MDMAWQMMQLLLLLALVTAAG GSAQPRISARAARTDLLNVCNNA AKHHKTQPSPEDELYGQCSP\ WKK\NACCTAS\TSQELHKDTS RLYNFNWDHCG*KWNPTCK\ PLYPQDSCLYECLTPTLGPWIR QFNQSWRKERFLNV\PLCKEDC ERWWEDCRTSYTCKSNWHKG WNWTS\GINKGRPGAF*STFES YFPTPAALCEGLWSHSFKVSNY SRGSGRCIQMWFDQAQGNPNE EVAKFYAAAMNAGAPSRGIIDS
19159	49527	A	19268	345	2138	QRLTATSSWTTMAKNRRDRNS WGGFSEKTYEWSSEEEEPVKK AGPVQVLIVKDDHSFELDETAL NRILLSEAVRDKEVVAVSVAG AFRKGKSFLMDFMLRYMYNQE SVDWVG DYNEPLTGFSWRGGS ERETGTGIQIWSEIFLINKPDGKK VAVLLMDTQGTGTFDSQSSTLRDS ATVFALRHNDPASIQVYNLSQN VQVEDDLQHLQLFTIEYGQDW AMGGKHFLAIFRSLDYFFVRD WSFPYEF SYGADGGAKFLEKR LKVSGNQHEELQNVKHHHSCF TNISCFLLPHPLK\ VATNP NFD GK\ LKEIDDEFHQKL*KYLIPWA YFRSRGA*DI*RRSNGGLK\ITC RGLVEYFKAYIKIYQGEELPHP KSMLQATAEANNLA AVATAK DTYNKKMEEICGGDKPFLAPN DLQTKHLAT*GRNLWKLFRGV KKMGGEFSRRYLQQLESEIDE LY\TNISSHND SK\NTFPCSSYPQ PTLFCSHPLITYVIAGVTGFIGL DIASLCNMIMGLTLITLCTWAY IRYSGEYRELGAVIGPRWLQLC GTREVQMRPWNKLYQCQQT PTDILYPSKPFPLHPKVGNLTEQ IQKRKKMVMMPKF

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19160	49528	A	19269	351	509	VVPLPLPLDSWTCESWLRSHI LTGESENPDKRI*PYTSDLPEG PGPWATD
19161	49529	A	19270	781	4324	ESVREKVLCLGIQQTVTVC/W SGTYIFAVLLVCVVFHSGAQEK NYTIREEIPENVLIGNLLKDLNL SLIPNKSLTTTMQFKLVYKTGD VPLIRIEEDTGEIFTTGARIDREK LCAGIPRDEHCFYEVEVAILPDE IFRLVKIRFLIEDINDNAPLPAT VINISIPENSAINSKYTLPAAVDP DVGINGVQNYELIKSQNIFGLD VIETPGGDKMPQLIVQKELDRE EKDTYVMKVKVEDGGFPQRSS
19162	49530	A	19271	3	644	FRSLPRRCLPRWQPSSFLGHHG PPFRPPCEAPKIVKKENPRKFIR APSQTGY\AKLSVNW\RKTPAI DN\RV\RRF\KGQILMP\NIGYG SNKK\TKHMLPSGFRKFLVHN VKEPEIAADVATNLTVP\SLTM FPPNRKAIRKGACPIGPFRSS PNPIARVAQLKEN*VRQLMCN KSYCAEIAHNVSSKNRKAIVER AAQLAIRVTNP\NARAQ
19163	49531	B	19272	27	161	
19164	49532	A	19273	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALS\RAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLL\FMKR\SRFQSNVQ RKLMTNF
19165	49533	A	19274	482	832	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALS\RAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLL\FMKR\SRFQSNVQ RKLMTNF
19166	49534	A	19275	121	201	SMYMDEN*RLELITL*FSSMYM DHSL
19167	49535	B	19276	1	1147	
19168	49536	A	19277	305	442	AGLFKSRKVSSICIRFE*ILTSC LGVRISTGKLVARIHGSFADAE
19169	49537	A	19278	133	527	GFLERPRILIKVTLSIKQKSTSIF VGGQFSKFRFLT\VLAWKCLSQP CF*A*TPASQHVS*SIRAISSMIS KRSELLVRLWRRPSP*AGLFKS RKVSSICIRFE*ILTSC LGVRIST GKLVAR\THGSFADAE
19170	49538	A	19279	531	669	AGLFKSRKVSSICIRFE*ILTSC LGVRISTGKLVART\HGSFADAE

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19171	49539	A	19280	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19172	49540	A	19281	10	426	
19173	49541	A	19282	1	900	
19174	49542	A	19283	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19175	49543	A	19284	1	1139	MWGIGSRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYLRLVGKNLHVSAMGLGK SQERRKKALKSQPPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLACLGMG KCSCSGFWLYF
19176	49544	A	19285	1	864	
19177	49545	A	19286	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19178	49546	A	19287	189	1089	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWKPI SNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWVVEAANLLI PAVGSSLSEALDLIES
19179	49547	A	19288	1	549	
19180	49548	A	19289	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19181	49549	A	19290	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19182	49550	A	19291	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLPASLTMSGVVLL GRMLARSARNWS

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19183	49551	B	19292	1	1488	
19184	49552	A	19293	2	133	YAQTDDNRRNLILNGTPLRRVK VLVFDIEYP**KVYGYNSTLA
19185	49553	B	19294	1	879	
19186	49554	A	19295	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19187	49555	B	19296	1	1575	
19188	49556	C	19297	1	2187	
19189	49557	A	19298	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT
19190	49558	A	19299	410	547	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19191	49559	A	19300	876	1005	
19192	49560	A	19301	167	263	KLIEAIWSS*FITGSSLRHNERLG ASTSSGEY
19193	49561	A	19302	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19194	49562	C	19303	1	1641	
19195	49563	A	19304	1221	1327	ALHPRNRHLHKERLGCIPVAC* LYLFGQYDAHCTC
19196	49564	C	19305	1	1353	
19197	49565	B	19306	1	2047	
19198	49566	A	19307	80	429	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF

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19199	49567	A	19308	1	2597	MAMFMLLAAALLSTFLTNDVA LYTVVPLTITLKRRLCEIPYNRLII FEGAGSQRFATDANWQPAK YSYLGTFWSFVCRIYCPNGTAG WRNDADAPAPVLAMQYHTGV QTPEWKPRVLVWSCLGLYIVFLT ALEFKQELWGLVIVAAGFALL ARRVLSVDWTLTLLVFMAMFI DVHLLTQLPALQGV LGNVISNV PSTILLNYPVPSLLLWAVNV GGFGFLTCRHARIAAPADLKDG LAVHEKRETRSLTEKTKMMLP KLGVSRECGNVKEVGIRAIE EFGPYKINGDKEIMRRMDDLQ GFDAQHRMKLPAQPTSLATKS ARRVRYPLFCPSIFNGFFEEFIFH RFLAEQALEFFNLLHGGSKFRG RNNLFSGGDSSRKNQRSTRTHC HHPSPKIYSASAKEPWVLTNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEEEEATVP NNKITVVGVGQVGMACAISILG KSRAMEHTTAGAPYTPRQQT QCNMMSLADELALVDVLEDKL KGEMMDLQHGSFLQTPKIVA DKDYSVTANSKIVVVTAGVRQ QEGESRLNLVQRNVNVFKFIIP QIVKYSPDCINIVVSNPRDILTY GTWKL SGLPKHRVIGSGCNLDS
19200	49568	A	19309	435	777	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP CRLVDWADIPEQQLMVLRAS VALHGRSVTLYEKAFFAFRAM FKRSS

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19201	49569	A	19310	69	1270	LCLLRHDCYRGLQSLLLILCKM ATLKEKLIAPVAE\DEA\VPNN KIT\VVGV\GQVGMA\CAISIPGK VSWPDEL\ALVGCWFEDKLKG GNDGSFQHGELIFFQTP*NCGQ DKGLFL*PANS*RFVSW*LAGS PVQPRRGRIRLQSWVPEKWLM VFQIPLFLKIVQVQSLICIIIGGFN PQLDILTYVT\WETKVGLPKHR V\IGSGCN\LDS\ARFRYLMAEK TWHFIPSSCHGWNFGGNMGDS SV\AVWNG\NVVAGVSL\QEL\N PENGNTNDKLLKIWKEGA*IW WLKSA\YEVI\KLKGYPQLGAI WI*VLAESYWNPMKKSYPRI\ HPGCPTNG*RQGMYGHWME SPSLEPSLCIPQCPRGLNPAVIQP RSLKDDEVASASRKSARIPLWD NPEWTLKRPLT
19202	49570	A	19311	52	406	HVEAAGSR*CAAPAGALLRFLG TPSFEDVSIPEKPKLRFIERAPLV PKVRREPCTLSDIRGPSTEATEF TEGNFAILALGGGYLHWGHFE MMRLTINRSM\DPKNMF\AIWR VPAPFQAH
19203	49571	A	19312	1	783	
19204	49572	A	19313	15	397	LLAEWTMGHTPVGGFRGAISL DAAP*EQGTMLVSWLCDLFLV LRILVGKTVSSKNIFIERVNGDG KHENIPMSSPPRSWFPSEKRFTN RRKTSSHLQNLVLGAVSLRQH WRGGVPRNLTRAPAGAAH
19205	49573	B	19314	127	181	
19206	49574	A	19315	242	1067	CAAPCGCPCQIPGALLPASAGV KTLPLVPSFEDVSIPEKPKA*DL LERAPTCAQK*RREP*KFKVTIR GP\SH*KPTEFYRKAIFAILGIGV VGYLHWG\HF*K*WRLTIQPAL WTPRTWFAIWR\VPAPFKPITRK SVGASHGGEAKGAI*HYLTPV KAGRLV\VEMGGRCEFARSAK VSLTQVALRSCPFASKRL*ACG TPREGCEQDQEERERQQPRTPW TI*AE*PTAQHGWAYGKVPEPH MTLTPQGEILGARFYMPKTCVV SVGDILYIGY
19207	49575	A	19316	1	520	

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19208	49576	A	19317	104	763	SAAADGPDLRRRPPANLRARP VLAPASATASARRACSPHPQT MSESK\SCPEYASFFAVMGASA A\MVFSALGAAYGTAK\SGTGI AAMSVMRPEQIMKSIIPVVM\A GIIAMLRPGWVAVLIANSND ISLYKSFLQLGAGLSVGLSGLA QPAFA\IGFVG\DA GVR\GTAMH AADIFRGA*FLILIFAEVLR\Y GLIV\ALILFHKVDLFRHQPT
19209	49577	A	19321	36	164	
19210	49578	A	19322	190	743	NDRGKEGSLSTVPSIRNTDSGH LAPRRKPQLKPSLNTSFPKAR KIHKGEHEVASAGGNPPAPILP KVPP*FNIHRRGPPWPDHVRFG SLFNTLFLNWCCLGVSLAFRL LP*KSRDTGKMGLGDVEPGAQ ALCLPPPKCLN\WALILGILMT IGFIL\LLVFGSVDSL TILWFQIIQ GKTGGY
19211	49579	A	19323	2	257	
19212	49580	A	19324	1	1227	MGRARKSGLGQRSRPTASRSEA AVQPGVRKARGAGNWRVGLQ TGEAAPSPhrdLRDTPDPRWL ARTHRMTTLVSATIFDLSEVL CKGNKMLNYSAPSAGGCLDR KAVGTPAGGGFPRRH SVTL PSS KFHQNQ LLSLKGEPAPALSSR DSRFRDRSFSEGERLLPTQKQ PGGGQVNSSRYKTEL CRPFEE NGACKYGD KCQFAHGIHELARR LTLHTKD*TELCRTFHTIGFCPY GPRCHFIHNAEERRALAGARDL SADRPR LQHSFSFAGFPSAAAT AAATGLLDSP TSITPPVILSADD LLGSPTLPDGTNNPFAFSSQELA SLFAPSMGLPGGGSPTTFLFRP MSESPHMFDSPPSPQDSLSD\QE GYLSSSSSSHSGSDSPTLDNSRR LPIFSRLSISDD
19213	49581	A	19325	204	456	
19214	49582	A	19326	1	323	IVEYHGPVDSISCTGMATICN MGAEIGATT SVFPYNHRMKKY LSKTGREDIANLADEFK\DHLPV DPGCHYDQLIEINLSEMV*PDM LPAPRLAHGVTVVVVGGFLK
19215	49583	A	19327	2	131	
19216	49584	C	19328	2	283	
19217	49585	A	19329	1	206	
19218	49586	B	19330	217	435	

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19219	49587	A	19331	1	565	PWE*SPKGIGVSCGPLSGWS/SPKD/VILKVQ/GILRFKGGTVQIVESTGLG*TPFSCTGMRQFCNMGAEIGATTSV\FPYNHRMKKYLSKTGREIDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWP LDIRVDALACQSLAFGAAWVQCGCEEHGAWSQMAWA
19220	49588	A	19332	117	2603	GQHCLLPWGVFPFLKKALGVIRQ*\HVASVLCQRR\VAMSHFEPNEYIHYDLLEKNINIVRKRLNRP\TLSE\KIVYGHLLDDPASQEIERGKSYLRRLRP\DRVAMQDATAQ\MAMLQFISSGLSKVAVP\STIHCDHLK\EPQVGGEKDLARRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILENYCVPWLSF*LGPDFHTPNGGG\GGI\CIGSCGWPNAWEWNLGIPWE\LKCP\QVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMGAIEGATTSVFPYNHRMKKYLSKTGREIDIANLA\DEFKVHLVP\DPG\CHYEPTTELKINLSELAKPHIQWGPFTPDRGSPCWQEVGKVGREGKGWPL\DIRGGS*LVACTNFKLWKIWGRSAA\VAKQALAHG\LKCKSQF\TITPGFPRQ\IRATFE\RDGYAQILRDLGG\IVL\ANACGPCIGQWDARKDI\KMGEKNTI\VTSYNRNFTGRN\DPNPETHAFVTSPEIVTALAIAAGTLKF\NPETD*PDGARMGKKFQAWRFPD\AD*VFPKGEF*PRGRDTYQHPPK\DSSG\QHVGT*APRSQRLQLLDPFDKWDGKDLEDLQILIKVKGKCTTDHISAAGPWLK\FRGHLDNIPN\NHLLIGAINIENGKANSVG\NAV TQEF GPAP*QLAR\YYQETLASRLGW
19221	49589	B	19333	1	1311	

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19222	49590	A	19334	2	1390	PRVRPRVRARPTKMSALGSLSL PSVLWGQLFAVDSGNDVTDIA DD\GCPKPPEIAHGYV\EHSVRY QCKNYYKLRTEGDGVYTL\NTI EKQWIKLRLFGD\KLP*IVEADD GCPKPPEIAHGYVEHSVRYQCK NYYKLRTEGDGVYTLNNEKQ WINKAVGDKLPECEAVCG\KPK NP\ANPV\QRDPGVGHL\DCQRS FFPWARLKDGFPHH*SSTHQP RWIQLNQWLA*PRLKNLLSLN H\SENCQQRKDICYF*HFMWG KKQLVGD*GRLFLQP*LTPRVD IGL\KLQTEGCSC*LRRVMPICL PSKGLWQK*GRVGLCFLAGGR NAQF*NLLTHLKVCPCCPVA*P KTQCHKAIYERPSNKSPPKRKN TRKKPL*GVQAPILK*NTPLCL AMS*RYPKERHPAYG/QNAGAS ALCPFHRPLEEDTPGMPTGIL\S FDKS\CAVA\EYGVYV\KVTSIQ\ DWVQKTIA
19223	49591	A	19335	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKKLIYVHLVIWAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSAVSIMYLVLVLA VQVHAWSLYYSKKLLDSWVH QHTGEEA
19224	49592	A	19336	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKKLIYVHLVIWAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSAVSIMYLVLVLA VQVHAWSLYYSKKLLDSWVH QHTGEEA

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19225	49593	A	19337	71	1265	RCSKSLRMSTFFSDTAWICLAV PTVLCRTVFCTYKKSSGQLWS WMVCLAGLCAVCLLILSPFWG LILFSËSCFLMHTYLSGQELLPV DQKAVLPTGGDCGLDHALSKY LDELGFTVFAGVLNENGPAAEE LRRTCSPRLSVLQMDITKPVQIK DAYSKVAAMLHDRGLWAAIN NAGVLGFPVTDGELLMTDYQR CMVVNFFGTVEVTKTFLPLL* SKGRLVNVTSMGGGAPMERLA SYGSSKAAVTMFSSVMRLELSK WGIKVASIQP/GEGFLTNIAGTS DKW\EK\EKDILGPPPLRVQE DYGQDYILAQRNLLINSLAS KDFSPVLR\DI\QQAILAKSPFAY YTPGKGAYLWICLAHYLPIGIY DYFAKRHFGQDKPMPRALRMP NYKKKAT
19226	49594	A	19338	1	861	
19227	49595	A	19339	248	930	DVHQLGNMAVIHSHLWEGLQE KFLKGEPKVLGVVQILTALMSL SMGITMMCMASNTYK*PLFP CISGYTIWGSVMFIISGSLIAAG I*N\TKGLVRGSLGMNITSSVLA ASGILINTFSLAFYYSITPYCNY YGQPPN*LSMGTMShLKGW MGMVLLLSVLEFCIAVSLSAFG M*SALLVPPGGGCVNSAITFFT WAETASSTTLNEGLRGTQRFNR QMLPEIYA
19228	49596	A	19340	167	1164	RNLRLPSSALAGVAPSHREPRV RTISQTD RRKDA/PDPARRDRVE LAPAYTSPPRCSANVTSTRRL RALCPARVRAPLRLPPPASSPLG SEEQRRKVPA AARMRPRAGAG RSTLPWLPAT/WPGLPSLPLYL* ICGGNNSY*R*RKGEQFE*RNSS *DYRYLPSSPASPNV\RRERQPNE NGPDDKEKDRPERPSPLDTSPL LDPPAVSDIAGKMSDEFSLADA LPEHSPAKTSASYPDHMVLPD PAAAGPLGPWGSMSGPWVPG MGGQYPTPNMPYPSGPYPVPP PPQASGAAPPVPWGTVP LGAW GPPAPYPAPTGSYPTGLYPTPS NPF

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19229	49597	A	19341	2	716	SDPSPLLDPTAVSDIAGKMSDE FSLADALPEHSPAKTSAVSNTK PGQPPQGWPGSNPWNNPSAPSS VPSGLPPSATPSTVPFGPAPTGM YPSVPPTGPPPGPPAPFPPSGPSC PPPGGPYPAPTVPFGPGPTGPYPT PNMPFPELPRPYGAPTDPAAG PLGPWGSMSGPPWAPGMGGQ YPTPNMPYPSPGPYPAPPPQAP GAST/ILFHGAPFPPGAWGPPAP YPAPTGSYPTPGTLS*FPPGAW GPPAPYPAPTGSYPTPGTLS
19230	49598	B	19342	54	178	
19231	49599	A	19343	3	249	RHKGSPSPHQTEPSWLHPVDP ALGPQVELPASL VLCARTPQPL GGR*DWV/PGTPAGPQESRAAP VPASAPPSTPRGRGRI
19232	49600	A	19344	2	504	WAPVRPEPPRRAPPAPQRPVP STTQGLRSAGA/PAPGLAGSYP CSPGYVNAPIDSLYLATFMGIR VKRPPNR/PLCEQ*SFYHLGAGE *PGKSRVPIPQFQSPGDPTVRV V\PRR*SVPTSCATPRSWCCSD TPGHPLGSPEQLPQGPAAELP GGVVPRSTPPCPAL
19233	49601	A	19345	3	335	
19234	49602	A	19346	2	447	CACTPQPLGGRWDWAPWSRG RRSSGRLRLHRNPRRRGKAQA WRAAVPRPAPREGS*GPGRPAA PSAGPPSPRPPGTPAGPQAPRAA PVPA\PRLPPLPAS*GSLRPSP AQKGAPTVQ/PVG*RAPQVPPK WEPRQRRRRERARAVRTA
19235	49603	A	19347	108	729	QHAGSPQSPRLLSAPPLPGLPL WWHLRSPSAPPLHCGSPFLGWP RLEPTPSACREVWRERHKWEP G/PACGACGPAGVPGGRG/PWW APHSEHPASPAGPG/PMGNLAP GPVAAEGVLSPPAVPAHRRCAR FLAGP*L/PFPRGRAWDLQAM PEPPTAPPWAPV/PAEPP*RAPP APQRPVPSPPKGAQDWQAAPP AAPVRDPLGEASWAPE

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19236	49604	A	19348	1	816	MWESLTLSDFLNGFDQNADS GIDNKVQVEVASDEDEELVGN WNKERENPFSGEKLKPAAEICIS YKEPNANHQDNGENVARACQ RPLQHPLPSQAQRPRRKQRFPG PGSGPTWDLVPCIPGAP/RLD*K GPRKPKSWYSEGQRYESPSFGIP LGSDLFPTNALLLKPYKLPPSR PRDYCGRAAFPRGRVRDLQPA MPEPPTPPWAPVRPEPPR*APPP AP/PAPSPIDHPRAEECEHTAQD WQAAPPAAPVRDPLGEASWAP ESGGDVESLYV
19237	49605	B	19349	4	669	
19238	49606	B	19350	1	930	
19239	49607	A	19351	170	444	
19240	49608	B	19352	1	1122	
19241	49609	A	19353	1628	3591	KGLRLKLCSEFVQLRFSIRNFRLG ILTYWKKEFEIVGWPRLEPTPL ACREVWRERREREPLRAALA GQLEFRVGVGLAGPSLGAAGQ PCWPRVIRDLAPGPVAAEGVLG PPA VPAHRRRCAGFLTEP*LPSRG AGLGTCSPCLSLPPTPWAPVRP KPPQRAPPPAP/PAPSPIDHPRAE ECERRAHDWQTAPPAALVPDP LGEASWAPESGISDEYITPMFSF YKSIGELKMTQEEYALLTAIVIL SPA WATERHPVFKKRERKKPSN CLEGVIAAAELAVGLPWNLG KFHTGDGTSAGLQGIAPNSVGP GQPAPEWMWGWERLLTDQDK TQGSASFCTATFQDAQKQLLQ ARFIHLSGLWEQQDGLWLSNW LSLKGQIGGPALTEPLRLSVNR GTWPPKLRDARRRSAGRADDR APTGRVLPGSPGAGPQTTPPPY DWSLRNRRRPAATDPEAQAAA AAA AVGQGRVGP AQIEPSCRPA GRSDPPAPGPEAEVCWVSRLRE PVRSFAFWLRQSRALIGSWGR QGDVAPAFTCPNAERGATGV RGGWGCWCGR AQLGRRDPAA TRPALNPERYQSPKSMQGLERP HVRNWGIELETLRDAFRPQPSV WRTARGEAGKRKGRLVECLGS QRKVLEGVLLYAVTRGSFPNLF
19242	49610	B	19354	1	412	

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19243	49611	A	19355	951	1453	FQTQEPSWLHLVDPTPGLQVEL PASPVCAHIPQPLGGRWDWVP WSRGWCSSGRLGPHRSPWSGW EAQAWQAAGPEPCPMGRQVRP GEKSSAVPVGQPG/SGHSVHPP QPLARVLSPLPGASRAGRLLR VWGPPSPRPPGTPAGPQARHTA PVPARASPSTPPCKLR
19244	49612	A	19356	111	658	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPPAP/PAPSPID HPRAEECERTARDWQAAPPAA LVRDPLGEASWAPESGGEPTPS GPGVAGSGSTHTHALTHACTH AHTRAELRLPPPRPLPPPLSPP /PPAPLLPSKPFSLSTDRISSKSR QQKVFPGRDPEPRGVVRAGSW NRTTH
19245	49613	B	19357	1	552	
19246	49614	A	19358	1299	1813	AHFPRAGTGAACSACWPAGVP GGRGLGGPRTRSSRPCWPRAK GDLAPGPAAAEGVLGPAAVPA HRRCARFLAG*LPYHGAGLGT CSPPCLSLPPTP/SGSCAPEPPRR APPPAPRHPVPSTTQGPWETC LLSIYGNAMNDERAWSLEGFW VLKPSDSWMTSLSERTISFF
19247	49615	A	19359	380	905	WIPHWGCRWSCPLVLRRALAF LSPWVVDGTGRRGVGSGAGRG GSGRTGAHGVGGRLRHGGLQV PSPAPREGS*GPARNRAQ\PGGP ALLGDSVHPPQPLAQVLSPPFP GPAGLAGCSECRGPPSPRPPGTP AGPQAPHAAPVPARASPSTPPL VHLTNDVLRVKVKWAFFFTLH
19248	49616	A	19360	1	1052	MGLAERCPLNHLTLTVSSVKCS FLLAHILSVAGACYGVLRGAPH TFPGITCPGCSQENNPikkWAE DLNRHLIQEDTQMANKHLKDA PHRYIIRELQVKPTMRYCHAPT GVAHIQSTNTPNAGEDVEHQEL TFIADGSPVTTRGHMDLVQTS SRTLGVIRSTGWSACAEFSHG CLAKRLQLLKHGNGNSNSGG NAECITRHCQKPLTGILSFILAL NKVKNTRPFDRCHSEGSEKEPS FCVTCPRRPEVNQSPYMPQPG KSSTHLSVVQLRALEVGEPAF PPVE/PEGPAGLRHPLWL*V*GQ GSGP/SSPPCLSLPPTPWAPVWP EPPRRAPPPAPQRPVPRPPKG

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19249	49617	A	19361	417	1092	KWCSKRTAFSFSLQGGVEGEA RAGTRAACGACGPAGVAGRRG LGGPPHSGQPASPAGPG/PVRDL APGPVAAEGVLGPPAVP/APPA LCSIS/PPGCSCLPAG/PRLRTCSP PCLSLPPPPWAPVRPKPPR*ATP PAPRRPVFST/NPRAEECGRTAR DWQAAPPAAPVRDPLGEASWA PESGGDVEN!.YVQLRDCKYTN QHPVSSSGFVNAPISTLYLVNL VGTWRIFMSS
19250	49618	B	19362	817	1596	
19251	49619	A	19363	350	644	
19252	49620	A	19364	60	1362	SRVEPRVRSASQDSRSRDNGPD G\MEPEGVIESN\WNEIADS\FDD MNLSESL\LRGIYAYGF EKPSAI QQRAILPCIKGYDVIA\QPQSGT\ GKTATFAISILQ\QIELDLK\ATQ GLGS*APT/RENLAQQIQ\KVVM ALG\DYMG\AS\CHACIRGAPTC VAEVQKL\QMEAPHII\VGYP LG RVF\DMLYR\RYL\SPKYIKMFV LDEA\DEM LSRGFKGQIYGH IQ KAQAAPPRVLLSATMPFD\VL EVTKKFMRGPH/IRILVRKEELT L\EGIRQ\FY\NVEREEWRLDTL CDLYETPDPSQASHLPSTTRR\ KVDWPHPRRMHALRFPWESAQ HEDMAQKERR/DVIMKEFRLAS SRV\LITTDLLA\RGIDV\QQVSL SHQLNY/SFPTTRENY\IHR\IGR GGRFG\KGV PINMLTE/EKTKR NLEDIETFYNTS\NEEMPLNVA
19253	49621	A	19365	911	1278	NCGIVISKHLVFTLA*MMCHFL ASLQRKGILKRSASV*AHSH/DP SFHMKIYNAGW\GHRT*HPAGG FAGPPPWGSVWGLAARTRENA PRPALPLPRAPSGLAHGADGD SNTEKIQSRDNRKG
19254	49622	A	19366	26	743	ETSADMAPSVPAAE\PEY PKGIR AVLLGPPGAGKGTQAPRLAEN FCVCHLATGDMLRAMVASGSE LGKKLKATMDAGKLVSDMV VELIEKNLETPLCKNGFLLDGFP RTVRHAEMLDDLM\EKRKEKL\ DSVDLNF SIPDSLLIRRI TGR LIH PKSGRSYHEEFNPPKEPMKDDI TGEPLIRRSDDNEKALKIRLQA YHTQTTPLIEYYRKRGIHSAIDA SQTPDVVFASILA AFSKATS

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19255	49623	A	19367	40	1002	VASGTRTELQDRRFRDTSGDM FPSVPP*EPEYTKGIRTVLLWPP GAGKGTQ/SGETEV*MACSLGY IASNLQSLHLNDSKAPALSAAIY CPRHPNWAENFCVCHLATGDM WR\AMVASG/SSELGKKLEGNL WDGWGNWVE*WKWVSWSSF GEGILENPLVAKNGFLL\DGFPS GPVKARQK\SPMDLMGEGGKE KLDFC*FEFSIP\DSLL\IRRNHKE GLIPPPKKWAGSYPRREFQPLP KEPP*KMNITGGNPLIRRSR**M KRPLKIRPASPTHTQT\TPLIEVY YRKRGIHST\NDASQTPDVVFASI LAAFSKATCKDLVMFI
19256	49624	A	19368	793	1152	SGRKRRGCGGQSVKQAPALTP GPPAPVFPIPEAPAACAPHHPGQ GNRRKCNFPVCPT\PKTASSCP/ EPLPPPSLQR*PCPCHPWHHLE FSFLDEVTF SFNKTFPKRLVSSK MLPLKVGH
19257	49625	A	19369	1	873	
19258	49626	B	19371	1	322	
19259	49627	B	19372	64	2250	
19260	49628	A	19373	20	368	CEARGGSGHGGRAERAGVCGG PAELLPKGSKEEQRDYVFYLAV GNYRLKEYEKALKYVRGLLQT EPQNNQAKELERLIDKAMKKD GLVGM/AIVGGM/ALGVAGLA GLIGLAVSKSKS
19261	49629	A	19374	3	492	
19262	49630	A	19375	62	570	GSRGQWPSEAVLNELVSVEDL LKFEKKFQSEKAAGSVSKSTQF EYAWCL\VRSKYNDDI\RKGIVL LAEELL\PKGSK\EE\QRGFTSFYL ARGGGTTRLQGITEKALKLRSA GLLAAQEPQEQPRPKETGNGLI DKA/L*KKDGLRGAWPIVGGM ALGVLAGTCRSSSDFAVFQ

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19263	49631	A	19376	1	944	MACHLQAGSPGNL VVYFQSKP EGLRTREPMMSVPVQVKG PST RKLMMSEDPLTLGNWHEL RVS RTAKNGILQVDKQKIVEGMAE LQQVVGKNMDSGVGPVVHGG GLTRTG YLLNPESLQQKAFERR QIQGCDEKLACVGKQTLGTWP LSESPSLTRLYCRRQLTQGS LR MSLNNAGVPGQTAPDQRS GEG VAAPAGPGEEVGREEGEGAAA GKRQCPCQQGSLCVDTSRPRLP KSQAQIPSSSRSSPSSEQQRGQ LPSVREHVEGGQGEERAPHCD GGGRVLLASGLAWLGTENIMD LASSPKDDWGVAVPSRGCERPS TFTLVLPSPIVRRRACSGQPISP GGGQETHGADTSHLTNP*ICLL SKAFCCRD SGLSK*PVLVRPPPC PQALPQSPCSYLLLAVALPFP LSSAYPPVRFHSLLC EIH EARS
19264	49632	A	19377	1177	1603	WVSSFSSSFSSFP P P P P P P P P P P PPSFLP P P P P P P P P I*DRARRCQQ TSIPLNKL NINKL L L L L L L L L L S P R P D DREKFTPQPQSARQREPIKGT A SRRGEGPICPTLSLYFLHVFLCF SCLSSQIH IYILRLSTVLVL I KNS
19265	49633	A	19378	1	896	FPFSLPPPKMPKGKKAKGKKV APAPAFVRKQDAQE*WLNPLAF KKRP*DFR\IGQ\DIQPQKRPPPL L*KWPR\YIRLQR\QRAILYK\RL K\VP S AITPVSPRALDPANQLLS LLKLAHKYRPRDKAQRSKQR\ LLA\RAEKAA\GK GDRPNQRD PPVLRARS*HPSPTLVEEQE KLS WV VIA\HDVD\ SIELGLSFLA\AL CRKNGGSPYCHKGKGQDLGR\ LVHRKDLAPLVAFTQ\VN\SED KRRFWLKL VGSYQGP NYNDRY RYDEIRRH WGGNVLGPKSVARI AKLEKAKAK\ELATKLG
19266	49634	A	19379	3	491	AKEALDWEEGHQ*DQRL*SRN SQLGICGGLRGFRGDRAASVFS R*AEKESVRQL*ARVPGALGVA ARANKHQR RWREGDSTQTATN TVDRRATRGRPM EWRATRVAD EEDGDRRRGDNR PQARTFRPRT SVRRAAGTNNSEGR RPTNAGT NGGRGVDIYTVN

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19267	49635	A	19380	1	1501	MRRSTPGVLPAAVGGARVRRRA VGLSGTGAEAGRAGAMVEKEE AGGGISEEEAAQYDRQIRLWGL EAQKRCHRMKEALSTAPFTDK ETHPKVSLAQVTRSSASVMVY GAFEVIGQRQSSAAKPRRSQSE SLGPEFQGLWEWLPASQHIMRS LKKQDGMGQGYRVSLWEVEVG QLIFLEEKVTP\EDPGAQFLIRT\ GSVGRNRA\EAS\LERAQNFNP MV/DMLK\VDTEIEKKPESFFT QF\DAVCLTCCSRDVIVK\NDQIC HKNSIKFFT\G\DVFGYHGYTFA NLGEHEFVEEKT\K\AKVSQGV EDGPD\TKRAKLD\SETTMVKN KVF\FCPVKE\ALDGWILDACDE MQMAALKRTTSDYILLQVLLK F/R\VTDKGRDPSS\DTYE\EDSEL LLQ\GNDVLD\SLGISPDLLPEDF VRYCF\SEMAPVCAVVG\GILAQ EIVKALSSAGTLP/PTTNFFFFR WA*KGEWGLWECLGPQVNSG FGQPQRCQLQHAHL\YSLFPFFM
19268	49636	A	19381	2	411	PGTSQGVFSPHRLGGAVRSPCP PPQDSRQASAGGAESQLKQRG FPGE*GCRSPVSCAWPQNRMG* GPQHREAGAWSGE*KTPIWLK QERCNRPGLLVTAELAAPAPRP DGMAPGCGGIRCTPGRPRLLH SGPPSP
19269	49637	A	19382	165	309	
19270	49638	A	19383	1	825	LATQPEGAGRVPSIHPQGGPEA ALQDLRTLGMSSRLHSGKESIG HNSSAGSSSQGPHHPRRKTAIL EKGGKQPHRMLPFSPGLGSSPE PANAGSPDTWLCPP/AAARVL* NPVKPRKGRSEPRSGWASQLPG GDSRLPLRPGTSQGVFSP/APAG *AGKLVLGVL\SLSLKQRGFPGE *GCRSPVSCAWPQNRMG\CRTSP GPSPTSPTAAGE*GSRPRRRKPG RVQGLQRDGP\TLTQEDALTA KRCPLPVTSVPQT\PETSTGAAA PGSQPVGAPPSR
19271	49639	A	19384	1	378	

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19272	49640	A	19385	381	1653	QRPRSGTFTMGRKSLYLLIVGIL IAYYIYTPLPDNVEEPWRMMWI NAHLKTIQN\LATFVELLGLHHF MDSFKVVGVSFDEVPTSDENV TVTETK\FNNIL\VRVYVPK\RKS *STKEGGLFYIPCGGWRRGSYS LIVYDLPSSWTVE\RPGSSLVSN HLRLAT*FHFPLQLGELYDAL R*FLRKKVLAKYGCEP*GESGIS G\DSAGRGI*LSA\VTQQL\DDP \DVQDPNFKIQS*IYPALSASWM *VLPSYQGKFKFSYFYSKSLQ\C RFWSEYFTTDRSLE\KAMLSRQ\ HVP\VESSH\LFKFINWSS\LLP*E GLLKGH\VYNN\PNYGSS\ELAK KYPG\FLDVRAAPLLADDNKLRL GLPLTYVITCQYDLLRDDGLM YVTRLRNTGVSG*LNN\HVEG\ GFHGA\FSLGLKISHRLINQYIE
19273	49641	A	19386	3	667	DAWADAWVPVSSEVAYLFGG CHTCGGLPVAHPMMPRGSRSR TSRMAP\PASRAP\QMRAAPRPA QVG\QPPAAAPPSAVG\SSAAAP RQPGLMAQMATTAAAGVA VGS AVGHTLGHAI\TGAFSGRK*LPE PARP*HHFNQEASG/TPPAQHSK QQRHPLQQPCP\YEIQTVFWE FCPGTRGDIQAL/CEGFNE\VLK Q\CR\ANGFGPNEEVSTFGRD WKFS\SHNLS
19274	49642	A	19387	81	1257	RHQSDQTPRLSRPHVQSQKSS MAAAAKPNNLSLVVHGPGLR LENYPIPEPGPNEVLLRMHSVG ICGSDVH\YWEYLS/RFGNFIVK KPMVLGHEASGTV\EKVGSSVK AP*NQGDRAIEPGCSPEEN*W NSC\KMG\RYNLSPSIFFCATPPD DGNLCRFYKHNAAFICYKLDPN VTFEERALIEPLSVGIHACRRGG VTLG\HKVLVCGSWANRGWVT LLVAKAMGAAQVVVTDLSATR LSKAKEIGADLV\QISKESPQEI ARKVEGLLGCKPEVTIECTGAE AS\Q\AGIYATRSGGTLVLVGL GSEMTTVPLL\HAAIREV\DIKG VFRY\CNTWASGGF\SMCLCVPKS V\NVK\PLVTHRVS\WRKVLEA FETFKKGLGLKIMLKCDPSDQN
19275	49643	A	19388	2	431	

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19276	49644	A	19389	2	326	ARGSTRLMESRVQHL*CTRKEL TPEVLQEWLDELEEMMLVVH MPRFRIEDGFS\KEQLQDMGLV DLFSPEKSKLPGIVAEGRDDLY VSDAFHKAFLEVNEEGSEAAAS
19277	49645	A	19390	2	368	
19278	49646	A	19391	1	2123	MAQFSIVGMCLGLFNQSPDGS GVQLFVIMNQVMAANLAETHA ALCPTLSSGTSARFRGKNQFSG GLPQITLSPLAQPCGRLAAMYS NVIGTVTSGKSLPSTSPLVPLLL SGFAPLFLKGLQNWQTQTTEG KSPSAAPASSQPQACPTDHFRE SALGACLSLPGEDGKIQKVYLL SLLLIGFWDCVTCHGSPVDICT AKPRDIPMNPNCIYRSPEKKAT EDEGSEQKIPEATNRRVWELSK ANSRFATTFFYQHLADSKNDND NIFLSPLSISTAFAMTKLGACND TLQQLMEVFKFDTISEKTSDQIH FFFAKLNCRLYRKANKSSKLVS ANRLFGDKSLTFNETYQDISEL VYGAKLQPLDFKENAEQSRAAI NKWVSNKTEGRITDVIPSEAIN LTVLVLVNTIYFKVLRMALERP QGLPLALQLTPFFFKWRDRSPE RANGLPKATQGLWKS\KFSPE TRKELFYKADGESCSASMMYQ EGKFRYRRVAEGTQVLELPFKG DDITMVLI\LPKPEKSLAKVEKE LTPEVLQEWLDELEEMMLVVH MPRFRIEDGFS\KEQLQDMGL VDLFSPEKSKLPGIVAEGRDDLY YVSDAFHKAFLEVNEEGSEAA ASTAVVIAGRSLNPNRVTFKAN RPFLVFIREVPLNTIIFMGRVAN PCVNLSEALAVLVVNLTTLMK RTHGESLDFMERKRRPAESILL

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19279	49647	A	19392	9	1630	PALCPTLSSGTSARFRGKNQFS GGLPQITLSPLAQPCGRLAAMY SNVIGTVTSGKRKVYLLSLLLD SFGDCVTCHG\SPVDICTAKPRD IPMNP\CIYRSPEKKATEDEGS EQKIPEATNNRRVW\ELSKANF PLLLTTFLFSTWADSKD*H*LTF FCSPLSIFQGFLWTKV\GACND TLQQLMEVFK\DTIS\ET*SR SHFFFA\KLN\CRL\YRKANKSSK LVSANRLFGDKSLTFNETYQ\DI SELVYGAKLQAPGTSRENAEQ\ SR\AAINKW\VSNKTEGRIHRCS FPSGRPFNELTVLGGGFNTIYFQ GACWK\SKFSPENTRKELFYKA DG\ESC\SASMDVTREGKFRYSG AWLEGT/QVLVVC PFKGDDIT MVLILPKP*EGAWAKVEK\ELT PEVLAKSGWD*FWREMMLVV HMPRF\RI\EDGLQV*REQPAKN MGPLSD\LFSPARKSPQTPPGIVA EG\RDDPPMSSDAIPIRHFLEVN EEGSEAACKYPLL*LPGRS\LNP NRVTFQGGQAFPWV\FIREVPL\ NTIYLHGAELANPCV
19280	49648	A	19393	3	737	
19281	49649	A	19394	1	705	
19282	49650	A	19395	2	757	
19283	49651	A	19396	1	1764	
19284	49652	A	19397	1	710	MAWALLLLTLLTQDTGSWAQS ALTQPASVSGSPGQSITISCTGT NNDVGSYNLVSWYQQHPGKA PKIMIYEVS KRPSGVSNRFSGSK SGNTASLTISGLQAEDEADYYC CSYTSSRPD\VVFGGGTKLTVL GQPKAAPSVTLFPPSSEELQAN KATLVCLISDFYPGAVTVAWK ADSSPVKAGVETTTPSKQSNK YAASSYLSLTPEQWKS HRSYSC QVTHEGSTVEKTVAPAEC
19285	49653	A	19398	1	679	
19286	49654	A	19399	1	743	
19287	49655	A	19400	2	736	
19288	49656	A	19401	2	718	

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19289	49657	A	19402	1	711	MAWALLFLTLLTQGTGSWAQS ALTQPASVSGSPGQSITISCTGSS SDVGGYNYVSWYQQHPGKAP KLIHYEGSKRPSRVYDRFSGSM SANTASLTISGLQADDEADYYC CSFAGSSALRIFGSGTRVIVIGQ PKANPTVTLFPPSSEELQANKA TLVCLISDFYPGAVTVAWKAD GSPVKAG\VETTKPSKQSNNKY AASSYLSLTPEQWKS HKSYSCQ VTHEGSTVEKTVAPTECS
19290	49658	A	19403	3	720	
19291	49659	B	19404	1	711	
19292	49660	A	19405	105	858	RRQDSGQSPA WPAGALLTLLT HCAVPGSWAQSVLTQPPSASG TPGQRTVISCSSSSNIGINDVT WYQQVPGTAPKLLMYSDNHRP SGVPDRFSGSGKSG\TSASLGPSV GLQSEDEADYYCGTWGLAA*M VFMSSAGGTTLTVTSQPKAAPS VTLFPPSSEELQANKATLVCLIS DFYPGAVTVAWKADSSPVKAG \VETTTSPKQSNNKYAASSYLSL TPEQWKS HRSYSCQVTHEGST VEKTVAPTECS
19293	49661	B	19406	63	756	
19294	49662	A	19407	1	757	MAWTPLLLLFLSHCTGSLSQAV LTQPSSLSASPGTSASLTCTLR DINVGSFPIYWYQQKPGSPQF LLRYKSDSDNQQGSGVPSRFSG SKDASANAGILLISGLQAEDEA DYCYCSSYVGTNNFGVLFGGGT \KLTRP*GQPKACPPRVTL/FPHP PSEEASKPNKA\TLVCLISDFLP GKP*QLPWKAA*QPPSLAGVET PPHPTRSNNKYAASSYL\SLTP EQWKS HRSYSC\QVTHEGSTVE KTVAPTECS
19295	49663	A	19408	1	224	YISLPAGVLSLACCTLYGISWQF DPCKYQVEYDAYKL*RLPLH TLTCSRPTRDNRVFRSPHSVRQ QSLGRCLA

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19296	49664	A	19409	235	955	ESTVQVSFCHRVPARTSSQTA LPVLLGLLGFTVSGPLNLPEPSV IVGNGELVGPQTCLHCGMEIYN G\ENAQDQF*VTELGAGP*EGP VTSYIVIE\PTRIGDETARWITVG NCLHKTAVLAGTALLLHPGLR CTLRFIPHHISAPLGV\SLACC NL\YGIS\WQ\FEPFACK*QVEVR TPNKLSRLPLHTLTLLPPRVVLV RKDDLH\RKRL\HNPIGTGPPLV YCVK\KIYELYAVMIFK
19297	49665	A	19410	1	764	MRLGIGFACPWKGLADEFDLKI EKQRNQGRLLGFKLQHLVPFTE MEKMGGDRQKHRTAPRQAER RRSGRVSFQPPLQPLDVTLLPG ATREGNCPRASRGRRPSPISHCQ ETQGPEGRSDCTIRGVLSSIPAA RPLRKSGSFPTVCEKRPEQGQQ PALGP/AGPAAVPAPAASRTQW GSRCPCGAGARRGYWRGLLGL CNLISPLDPGSPGSGRWGSAGA LSRPADSCPPWWPRAGA*RRG AAAEAGNSPSRCGASRPAEEQS GAFAGPLPSSPSQ*RAPGAEV
19298	49666	A	19411	209	536	TRSSCVTLVC*LAMVSLRVARP HGVPGMTFGKRKKRVEISAPSN F/EHRVHTGFDQHEQKFTGLPR QWQSLIEE/SARRPKPLVDPACI TSIQPGAPKEVCSPRASGTRSR
19299	49667	A	19412	124	1983	
19300	49668	A	19413	424	1582	PPWAAVHGDRPHRVPGTMFGK RK/KRVEISAPSNFEHRVH/TGF DQHEQKFTGLPRQW/QSLIEES ARRPKPLVDP/ACITSIQPGAPK WGETGSWPPF/RHLPEG*HGPP PGCQREPQRVSHQ/FRAALQL VVDPGDPRS/YLDNFIKIGEGST GIVCTPPSGKLVAVKKM/DLRK QQRRELLFNERPWQCP*HP/RR* EAQVPLPVLQALSV/LHAQGV HRDIKSDSIL/LTHD/GQVSKEVP RRKSLVGTPY/WMAPELISRLP YGPEVSPGWLGCPAVDSVRCH FQLQRWREMGP SLGSHCQNGA LDKEEGQRPSTGSLQWGS LG VERTLRVNMVYECVHACNSFY LNKLFQKDSTQEASVTMVPDP DKDGKNRASQKRKAHSQGARR

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19301	49669	A	19414	488	707	TCGEGLSWTRPLPTASSLQV\H* SLSAGERPYLCDYPDCGKAFVQ SGQLKTHQRLHTGEKPFVCSEN GVNLVF
19302	49670	A	19415	16	454	GPAGRCPADCSEEKEGPSA/GD SGRPPSCT*PWKGLPVMAILPG EAPVPGPGWPEPDAGG\PLWR WGSPSPCAAALHRPSGTTTPGR ALSGPGLERAKQRSRVSPAPR AAPHGHPHCLPIAGPRPAKD HPAYGPPASCHHHLAAS
19303	49671	A	19416	166	1191	TAGSLVLAARGT*GPPPRARK* GPAGRCPADCSEEKEGPSAETP GTTTPGRALSGPGLERAKQRS RVSPAPRAAPHGHPHCLPIA GPRPAKDHP\PTHQKPPPRTEGS TGGHCCGPPIFLIPNTSMLTVYP SGPVMPAGFTLSPSDTRPSLLN GQEVLRKMNGAVQYLSLCDYII PTCQCLATTVLCSVSMSLTVFA VSYMVELLLLQNAQVHQLVLQ NWMLKALPPALQDPPHVPPRV PRAARTRPAV

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19304	49672	A	19417	1	2481	MRSGDLKFGKSAAWPSGQKEK LVFRGKIEEGLEYLHKKKPSAN SQDNGKEASKAFHGPLQQPLLS QALGPDREEWFPQAPWPHCC VHPQDTAGCIPVVPAPAMAQR CTGTAWVTASEVAPSLDCFHIV LSQQVYRIHRPTSSLHPQYGKA TRHTTPAVSMRAAAGAEPCKA TGADWPCTLGAQPSHPCTMDV GQGFKKDDSGAALAPMAALM GWAGIECLWLFHTEGVNCWP WDLGEKNGLLGQPRGPAAVCS LRTLLPASQQPQLLLRPWLKDA QVQLGSLQLQRVQAIGLGGFYIV LSQFIDPSKASYPPWVKNSRHS TAAQPMRAAAGAHECHKATGA ELPKALGAQPSCPCVLDVGQGF KKNDFGAVGLNNWPAGFWNV MGTCKSRLCFVLLSGKKSSFRV EVL TQCLDSHTLETYQFYNREV AFEDVLESSQTGLVVQKPQTDR LTKRGRGEATRNLRLGLVPSMP RSLLPSTAQPTAWKCQRGSPY THQDMALIPSPTARCLSPAKEP KQEEVGEKSLLPDPTLPLTDR LTGSTEQAHAEGLAALMSALR VSHLQGRGGVVTLVDSQLGVI AVSSTQFNKGPSYRLADVQN RLLPKYDSQKEAELRSWIKGFT GLSIRPDFQKGLKDGIILCTLVN KLQPGSVPKIN\ASV*NWH*LEN LSNFLKAMVSYGM/NPVDLFEA

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19305	49673	A	19418	1	1299	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKINVASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNMQVR VSLALAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSMSLKMGYT QVANHSGQVFGLGRQIYEPKY QPGGPVAHGAPSAGNCPGPGE
19306	49674	A	19419	135	290	HREEESKSSVFLNPRGVQGTGV GDHRMILGRGRAVLSKE*AAG PRGGRHES
19307	49675	A	19420	92	1058	KGQYLNPNRGKGGPEPPFEPPV PPASRSDMAQNLDLAGRLPA GPRGMGTALK\LLLGAGAVAY GVRESVFNVE\GGHRA\FFNRI GG\VQQDT\ILAEGFHF\RIP\WF QYPH\IYDIRAKTSKKSPPLQGS KDLQM\VNISPAKCWSRPNAQE LS*ACTSRLGLGLTRER/RCLPSI VNEVLK/AVWVAKFNCLTA*FT QRAPGYSLDLSAGSLTERAKGL SSLIL\DDVGQSQKLSFSPRSYT A\AVEAK\QVAQQEAQR\AQFL\ VEKAKQ\EQRQK\ILQGRG*GR GLPKMLGEA\LSKNP\GYIKTSQ RFEPAPEIILQRRIAHIHRNP
19308	49676	A	19421	3	861	LDDSWEPVHPGCGDFICQWSEE SGLWSTA EVWRERRGREPGLC EGARGTARVPGGRGPPHQSGQ PVPPAPGS*GA*\PGPAAVEGVP GPPAVPPASAALEFSRGFSCLPR CHLVVTKIGKQEDDVSIKRNK PDYWPAPPEPVAGCEGSDQEQV KPNATLEKHFLTEGTGPRSPSC LSWPPSGPHAAADPAMVPETPE PDRPQLTKKFCEARVMAVGTS NVLGQTLKPSRTGGTSWSWVF YLLTANRLPFDVKRKGSSSI KPRPHYDHRLQLDFKEQVIHFF

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19309	49677	A	19422	808	923	
19310	49678	A	19423	1	339	
19311	49679	A	19424	1	621	
19312	49680	A	19425	3	1836	MAAVEAAAEPVTVVAAVGP AKDEEEEEEEPLPPCEA/LRWAP VLWRGPAWATAFLEEATAEEP GAAPGSPDSDPRTLRLRAER RLDS/SLLALSSDFAQVQFRLR QVVRGAPAEQQRLLEDF LKG/IPDILGYEGPGDPASDEGD GLPGDRPRLRGEDQSEKQER LETQREKQKELILQLKTQLDDL ETFAYQEGSYDSLPSVVLERQ RVIIDELIKKLDNMNLNEDISSLS TEELRQRVDAAVAQIVNPARV KEQLVEQLKTQIRDLEMFNFIQ DEVGSPLQTGGGHCECKAGGK TGNGCSRTGSSRTPPGNSRTKA EDVTKVRKTGLHLMRRALAVL QIFAV\TRLVVPQARSLQPCGRG SRLTETTLPC*R/ELEASVDRVK QLALTAEPHDHVITSANLQDLS L*GKDELTM AVRKELTVAVRD LLAHGLYASSPGMSLGMATIA* LLPAFSSVPEAMHPRELFVKYY HAKNGRAYVESPARKLSQTFA LPVTGGTVVTPKQSLLTAIHNV LTEHDPFKRSADSELKALVCM ALNEHRLVCWMNLICKSGSLIE PHYQPWSYMAHTGFESALNLL SRLSSLKFSPLVDLAVRQLKNIK
19313	49681	A	19426	366	477	
19314	49682	A	19427	3	432	WNSRDAGYEFDICFTSVHLY\AI RTLWTVLDAIDQM WLPVVRT WRLNERHYGGTLGLNKAETAA KHG\EAQVKIWRRSYDVPPPPM EPDHPFYSNISKDRRYADLTED QLPSCESLKDTIARALPFWNEEI VPQIKEGK\RVLIA

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19315	49683	A	19428	1	890	MRTRRTPRGEHSLSAFSSCVDK ISRVCKSFGLELENSIQTLWAER EQSICLVAAAGHLVSSSGMRNW CHARRHAAAYKQVLIRHGEVAW NLENRFGGWYDANLNPAGDEE AKRWEQALPDAGYEFDIC/FKR TIRTLWTVPD AIDQM WLPV\NV SKDRRYADLTEDQLPSCNSLKD TLARALPFWNEEIVPQIKEGKW SDHCLGALVIPVDGDCNLHGD VTTVSSLTPEERALEEPLNRPTN A/P*HQEG*CWESHQKVPVFQT LGCLCEFSRSGASRRKQARVVFR ERSNLCRSISGGEGF
19316	49684	A	19429	1	443	RALPFWNEEIIPIQIKEGKRVLIA \AHGNSSGAIVKHLEGLSEEAIM VLNLPTGIPIVYELDKNLKPIKP MQFLGDEETVRKAMEAVAAL VCVLESLPALFHGSEMP LGPVQ VYLSLISESCSSCLT LPHGSSVH LSITVLNPF SISV
19317	49685	A	19430	24	1039	AVLALLRGRRGGLLRNLLIPV GAASPARQWPPYKLVLG\RHG ESAWNLENRFSGWYDADLSPA GHEEAKRGGQALRDAGYEFDI CFTSVHLY\AIRTLWTVLEMP\A SEM WLPV\RTWRLNERHYWG S*PGLN*KQKLA AKHGLRPRLK I\WRRSYD\VPPPPMEPDHPF\Y SNISKDRRYADLT EADQLPSCAES LKDTIARALPFWNEEIVPQIKE GK\RVLIAAHGNSLQGHCSRL EGLFEEAIHGSLNLPDLVFPLSI ELDKNFESLSSPMQFLG\DEETV RKAMEAVACPGQGPRSEGRRG RILSPGCTLPCPVFVPSSPSHLA HVTLDHICKTS
19318	49686	A	19431	86	431	VYVSTMSLSCPASELA VRRQR WSSQFQDHPG PLQRPV*EML LL*PTLDLQPVVPPAVAILSWKP SALTISSQIVTPGLKTRSFTRKT FMKIWNHRQKYQKTMLVMFP RYPSL
19319	49687	A	19432	599	900	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEFPTFSLFF RHTEDHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19320	49688	A	19433	210	341	HFRKIFTVFQLKLVEYNLLSGH STQQSHPGGTVLL*DLVCPVV

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19321	49689	A	19434	239	464	SPKGGPPNPSHGTFHTRPCEE TTKQALCEEHGCFLFHLGAGGLS PKRESAKGDKGGASVHVVCHI S*SPCS*LGP
19322	49690	B	19435	1	838	
19323	49691	C	19436	80	443	
19324	49692	A	19437	1	775	
19325	49693	A	19438	209	469	
19326	49694	A	19439	304	375	NVGE*SERHPCYD*TPREVCPPS P
19327	49695	A	19440	879	1188	
19328	49696	A	19441	615	917	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEFPTFSLFF RHTEDHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19329	49697	A	19442	674	1554	GQMASSSVSLQQGVPQAADPG WVTAGASLTRA WAAGVQGDG PGTESSISASSRRVLRLGMTRTL LWACVLLWVCILLGLCPAVG PVS\SVGPVSYCGVPYCPYP VGPVPCPAVGPVPCCGPYPS/VGP VPCCGPVSCCGPVSCCGAVSCC GPVS\SVGPVSC/VLGLCPAVGP VS*CGP*PAVGLCPAVGPVPC CGPYPS/VGPVPCCGPVSCCGPV SCCWACVLLGLCPAVGPVS\S VGPVPCCGPVPCCGPVSCCGPV S\VVGPVSCCGPVSCCGPVSCC DHSSHLLLLTFTML
19330	49698	A	19443	4688	4824	

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19331	49699	A	19444	1	2274	MLKPLMGGGAHRRAAAGARK WDGTAIHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDDDKDAAAICQPSAG VHIVMPGYYSPEMGLLDPATS DGRVIFFLPWQKMTIAGTTDTP TDVTHHPIPSEEDINFILNEVRN YLSCDVEVRRGDVLAAWSGIR PLVTDPKSADTQSISRNVHVDIS ESGLITIAGGKWTYRSMAEDT INAAVKTHNLKAGPSRTVGLFL QGGKDWSPPLYIRLVQDYGLE SEVAQHAAATYGDKAFAVAKM ASVTGKRWPVGVRLVSEFPYI EAEVKYGIKEYAC/DCCGYDFT SYSPGLS/EMSRQQRKPYPGLL N*/CGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQFTFTSVTARKGS VDPKNSGAQLASPSGSRTGAA GGAACQSRALRLHSSALGWSM GLGAVEHGAVLIGEARAAQEP MEGVGGSGMAGCRSQVLPRG
19332	49700	B	19445	439	1542	
19333	49701	A	19446	2	418	CLSLPPTPWAPVRPEPPRR/CAT PCSTAPSPIDHPRAEECERTVQD WRAAPPAAPVRDPLETGKIDQE IHKYNTPGFTGCLSRVQFNQIAP LKAALRQTNASAHVHIQGELV ESNCGASPLTLSPMSSATDPWH LDHLDS
19334	49702	A	19447	111	215	GTCWELE*RGKGPIFWGEIKAS CRNLHKLQGAKC
19335	49703	A	19448	740	959	DLYPHHLSWQSRNAARKRKS* RGQRPIPAIS*GR\SQKQQQNVN TSTPSHCPRLPYECRPLLHGAQS HRPPKG
19336	49704	B	19449	260	508	

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19337	49705	A	19450	11	490	RLSTSPDPSGAQLASRSGSHTG AAGGAACQSRTMRSHSSALGW SMGLGAPLQRH*INSSGGSWLV DKESFPVPSALNFSPLGRKSSPC SKVLYMPNPVSHSMIPSGSERS MDTNGSCWYLTCSLSAPGRRD TRIRKVFSGQGRLLVLTLMISPSV GHSTA
19338	49706	A	19451	42	263	SGVSPMSFNTFTSAPAFNRSWT TCLCPK*HARCRGVQPKLDLLL PLQLMSAITSFLAMVSNCLTSS ALPFLA
19339	49707	A	19452	662	1564	GSRICSFQTRSGHPECPCQCHWT RQNHSSIQQPHKAAAYTKKTTIH PPNRSNSCSSIWCKLQKLYMCG P*GRSFNFSANLHQPQKGHSGE RPF\EKNKGRAILLKSHRVHTQE MPFPCSKVGKGYLVSSGLFQH QAIHNEKPCRSAMYGDMFHTQ QGHFKCIDYGEAFSPKDTPGQH QIIHTGEKPYVCTECEKCTRSS NLIQHKKPKGLLSLLVLSPTGN ALFSTLSQLTQLLLTFDVRSDA TFFRKGSGRHQLWLALPEDAR ARVTSVSGTRRRDHGGARGVV CLIHGCVDPDRSSPDVW
19340	49708	A	19453	1	1167	MIREQKVKEVYICAGKKKSHM HLWHNGEKYNRLGRKDRKMT HEGWLIKIPHFGRKYKASGLH WEQMKHMGGRGKVHLEFTEM YVAGRRGEVKDEVLEPMSLTE VYIPTENDREVWRERRLRAPGL CAALEGQLEFRVGVGLAGSAL EAAGQPCWPRAGRARDLQPAM PEPPPASVGSCAARASLRSAAP CSTAPSPIGHPRAEECERTAQD WQAAPPAAPVRDPLGEASWAP ESVMWPPLDSRQSEEVSVSKRH MDATDKIKFPWLKEKRTIEFGE AAGYVCHRRYKDMPEHEKMG EAAKKVHWVQMRSRARDLQP AMPEPPTHSGKSCAARASPT/T HHPLLHDAQSHRPPKGLRSAGT WRGTGRQLHLQPQCGIHWVKP AGLLSLL
19341	49709	B	19454	118	559	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19342	49710	A	19455	26	813	LSHYLACSLRLPSGSRIRSAWLI PSIMLLNYTSPGLPRHRKSEN LDDTARRSPGMAGPGCPPLPGG VPDVRAAYGAPTSARPRVGW PPGGRWPRGARGARSFLKKPFR GTPTQVRGAWQCPPLTV\EK *PWHPCGRFQGRRHEEKGGRE LGHSKSPPPRRSHYPAGEKGEE ERKEREESSCAGLRRGAHEHA QGQSLPGELPAPGDHPGRCVG GQGRSRMGPCS*SLAQHPPVCT RGQREKQERRATNKPVRGAPK
19343	49711	A	19456	497	756	TWLKSGISFPALFTIAKTWR*P KCPSMIDWIKKMW/HIYTMEY YAAIEKDEFMYFAGTWMTLDT VILSKLSQEQKTKHRMFSLISGS
19344	49712	A	19457	100	819	EWSSVRRILVEKRALRRPHPQC LCFRMKTILSNQTVDHSQKNV DITLKGTPQ*SCKGPRGTLR\RD FN\HIKCGTSALLGKEQQRGFR VD\KWWGNRKGNWATRSGLF GSHVQDHDPRGVTTGASGYKD EGPVYASPSPHPTVVIPGRNGSS LLKSRNFLG\EKYIPQGFRMKTR VLLCSVSQSPEKMKLILE\GND\I ELVFKFQRALIQQ\ATTVKNKG\I IRKFFGWVSMSEKGTVPGLI
19345	49713	C	19458	395	574	
19346	49714	A	19459	1	1476	
19347	49715	A	19460	2	323	
19348	49716	A	19461	539	711	HRPFPQDRKAGECELLHEYEDLV PIRDTLRLFPGGRYLPRAKHVA PSEPDPGWLVLG*FYC*FCHSP ALLSGFCLAVNVYRERSV
19349	49717	A	19462	66	2873	SARTISYDYYQNWGRDGGPRSS GGGYGGGPAGGHGNGRSGR GGGGGGGGRG/WQGPASRAPE RPRNRHVREKTGAEEQGSWR GKREL/LVHMDERREEQIVQVL DSGQAENG*RVRTTDF\RFAP DHGYGTEVSTKNTPCSENKL/G HPGKEVDKSRKKNV/SESGTDH ILTRDSEYLLQENEPDGTLDQK LLEDLQKKKNDLRYIEMQELV NLIDNHQVTVISGETGCGKTTQ VTQFILDNYIERGKGA

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19350	49718	A	19463	1	2112	FRKTTRRLRKVKGRTAGCARF RKWLLRQHGLRTLGLICNHTSR MTRCRWSAESDSGDEEEEGPIV LGRRQKALGKNRSADFNPDFV FTEKEGTYDGSWALADVMSPL MKKRAATTLHEKIEKARKRRK TEDKEAKSGKLEKEKEAKEGSE PKEQEDLQENDEEGSEDEASET DYSSADENILTKADTLKVKDRR EEEEERTGSRRI*RCIS/ATMKT SSFQDMNLSRPLLKAITAMGFK QPTPIQKACIPVGLLGKDICA/C AAPGTGKTPPFALPVLRLIYIP SPGSSL/TRVLVLPVPTRELGMQ VHSVTRQLAQFCNITTCLAVGG LDVKSQEAALRAAPDILIATPG RLIDHLHNCPSFHLSSIEVLILDE ADRMLEDEYFEEQMKEIIRMCSH HRQTMLFSATMTDEVKDLASV SLKNPVRIFVNSNTDVAPFLRQ EVIRNRPNREGDREAIVAALLT RTFTDHVMLFTQTKKQAHRMH ILLGL/LGVQVGELHGNLSQTQ RLEALRRFKDEQIDILVATDVA ARGLDIEGVKTVINFTMPNTIK HYVHRVGRTARAGRAGRSVSL VGEDERKMLKEIVKAAKAPVK ARILPQDVILKFRDKIEKMEKD VYAVLQLEAEKEMQQSEAQI NTAKRLLEKGKEAVVQEPERS WFQTKEEKKEKIAKALQEFDL ALRGKKRKKFMKDAKKKGE
19351	49719	A	19464	354	446	RQHAH*ESSPLPNLTYPGTQILR KAAGTSA
19352	49720	A	19465	42	388	
19353	49721	A	19466	177	497	
19354	49722	A	19467	271	773	TAMSSEEGKLFVGGNLNFNTDE QALDHFFSSFGPISEVVVKDR ETQRSRGFGFITFTNPE\HASSC Q*RSQ*TGEVSWNG\RQIPLLDH AGKSCSGEPGRRWALGPMGVG SQLILEVVGDDQGYGSGRYYDS RPGGYGYGYGRSRDYNRNGG \GYDRYSGGNYRDNYDN
19355	49723	A	19468	2	414	GRVGPPRRAGGPRASAAGDPA RGGAAPKMSQTAMSETYDFLF KFLVIGNAGTGKSCLLHQFIEK K/WSVTRSYYRGAAGALLVYDI TSRETYNALTNWLTADARMLAS QNIIVILCGNKKDLADREVTF LEASRFAQEN

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19356	49724	A	19469	397	445	GHRGAHRPRTLRSVVVRRRAHR CSYSGIWD/TAGPDRFRSVTRSY H*GRPGALLVYDITARETYNAL TNWLT DARM LASQNI VIILCGN KKDL DADRE VTFLEASRFAQE NELMFLETSALTGENVEEAFVQ CARKILNKIESERMGSGIQYGD AALRQLRSPRRAQAPNAQECG
19357	49725	A	19470	2	559	
19358	49726	A	19471	1	483	
19359	49727	A	19472	95	352	RKATKMATIWASGTPKQPCPR ELLAQERRQTRTRYNQ*DQ*QE RRSRQRIMGVGLHMLRSEKA PQQRSAFHCTPKSSRPSARLT
19360	49728	B	19473	247	1364	
19361	49729	A	19474	422	877	CHTQTQ*QHTP*QPTPIDMAPTS HARMPFHTHFLTQILTLVSRSP DPG/PHGGKVPTRIPIPPAQPWG PSTLPSSSFLGPPRPFPSPPVPGP GGENRKPFTSPP*A*\GFPGPPSG P*AGGEG/PPVVGRGATPSPTTP SPACGPLKCWWHLIKN
19362	49730	A	19475	168	522	LALHPTRLIPATDDEVITVTE KINAPH*KQPVVNVEPF\APGLF AKA\LANVNIGSLICNVGAGGP CCQPAGGCTQPGGSCPLHCWL LPA*GRRKWEAKKEGFRGSFD* LTWGFGSF
19363	49731	A	19476	1	328	
19364	49732	A	19477	1	1204	MASRLLLNNGAKMPILGLGTW KGSILRVGFGSSSREPPPYRGQP LMGGPPVRILGPSGRPKRHNR GRRGK WASQTGGPRAQTGTWS RRQGQVTEA\VKVAIDVG YRHI DCAHVYQNE NEVGVAIQEKL EQVVKREE\LFIVSKLWCTYHE ERGLVKG\ACQEDTSSDLKLAD LPGPLTLIHWPTGFKPGKEFFPL DESGNVGPSDTHISDTWA\AME KLVDGLVKAIGISNFNHLQVE MILNKPGLKYKPAVNQ\IECHP YLTQEKL IQYCQSKGIVVTAYS PLGLS*TGWPWK\EDPSLLED RIQGGSQPKHNK\TTA\QVLIRG SPCKRNLVVIPKSVTPERIAEN FK\VFADFELSISQGYDPP*LSLPT RNWR\WVCPCWCT\SH\KDYP LPMKEVLKA
19365	49733	C	19478	300	489	

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19366	49734	A	19479	243	471	CDHLQVSRPRIPATVPVEWKRS EMDSKEEEKKEKKEKRRRR *RRRGKEEEEEERRRRRKRRRKK RGRKK*IKKRV
19367	49735	A	19480	1	365	MGLYKDLLDTRYLFYLVPGYG LTQIELEVIKDSAKPVGTPRV GLKLEMGIYLSGHLDFIFAMP FKIKDILSLKKEEEK/ERRRRRR RRKEEEDEEEEEEEEERRRR RKRRRKKKRKKKID*KKEEKE EEEGEEGKKKKMKKKRKKK KKKKGGGGGKGGERRRGRKK
19368	49736	A	19481	96	508	PAGSLVCPNQCSSARLFSSFFCS SAVMSASPAVGKRGWAELTGS FLPKPPLKTLGSGREDR*GQVW WLTPVIPALWEAEVGGSLGQE FETSLGNMVKPLLYWLGSNGW LWKLGRRLWQLLWLQDDWPT RGSHILVL
19369	49737	A	19482	3	1013	SRPSWGTHWNEYARRLTLAPS WPLP*GHPVSPSLRVSL/PHY ESVLEKKGPCDRDYKKFWAGL QGLTIYFYNSNRDFQHVEKLN GAFEKLTDIPWGSSRDPGTHF SLILRNQEIKFKVETLECREMW KGFILTVVELRVPTDLTL\LP GHLYMMSEVLAKKEARRAETPS CFLKVSRLEAQLLLE\RYPEC GNLLLRPSGDGARQRVGHHA ADQRDA/PWFRHYKVEAGRG PKYVIRCGTAVLLHLPWTT VVNYFVSHTKKALVPFL LDEDYEKVLGYVEADKENG ENVVAPSAPGPGPSPLHK VPPSRCQPASSQDKLPPL PPLRNPGREIT

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19370	49738	A	19483	63	1496	LISAMACVAPRLISVY\SEKGESS GKNVTLPAVFKAPIRPDIV\NFG SHPNLRKNNRQPVCWQGN*AG HQT\SAE\SWGYWPRAVGSKFP R\VRGGGTHRS\GQGCLETMC R\GGRNVLHPTKTLGRRWHRR SSTQPKKRIRPSGSAPGCPQPLP ALGHGLKGHLY*GKFPETSFV* VER*KLKG*QEEPRAVFAPLR KLKRPGNDIQKGSMASSAK*RA GQKAKLRKPVARIPAAGAPCII\ YNEDNGYSFKAFRKHPWGLL MLNC*GKLEHF*KLAPLVGHV G\RFLHLGLESALREV*DDLY\G T\WR*SHFPLQGVNLPFSPWHK \MI\NTDS*AESLKSPEIPREPLRA PR\KKIHSQSS*RRNPLEKL*EIM LKA*TPFAKAHAAGTPFFGQAR N\HKLRVDKAAAAAA/ANLQA NSDEKAAVAGKKPVVGKKGK KAAVGVKKQKKPLVGKKA TKKPAPEKKPAEKKP\TTEKKP AA
19371	49739	A	19484	3	730	KRLPKMAEVQVLVL\DGRG\HL LGRLA\AIVAK\QVLLGRK\VV VVRCEGINISANF\YRN\RLKY LGFSPPSGMNTNPSRRPLTTSG APSRIF\WRT\VRGMLPPQNPSG GQGRLLDRLQGV*RASPPPYGQ EKSGMVVPAALKVVR\LKPTR KFCLIWGR\APEVG\WKYQAV TAPPGGERGKRKAKIHYRKKK QLMRL\RKQAREETWRKKIDK YTEVLKTHGLPGLSPIKTVNSS KKKKKKRAAA
19372	49740	A	19485	1	660	PTRPRTRGRRTKSTPMKGLGA RYREYKV\VGRCLPTPQNATRG PLLPACEIFAP\NHVVAKVPF W*LCILS*KKMKKFFQGKIVYL WGKVF*EGSPLRVERTFGDLGL RLLTPRERAPHNIVTGEYRGP* PTAGGCSTQLLTRDNGVARHR RPEAHFHFRFMEGWEGDRGP/C KIPPGGLVKASSNDSKIKVSRW PHRVLAAFRNKARFTTKRPNT

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19373	49741	A	19486	51	471	EAGRLPGNILLDSIMACGLVAS NLNLKPGCECLRVGEVAPDAK/ S*VLPARCVHGILSDRLVGQWG WSWPRWPHAHPLPPSFVLNLG KDSNNLCLHFNPRFNAHGDN TIVCNSKDGGAWGTEQREAVF PFQPGSVAEVC
19374	49742	A	19487	59	527	ETQSWPCGLVA\SNLNFNTLES CLRFPKPSWLPDA\KSFRG*NLG QRPPTTWCLHFQPSASTAH\GS ARHASLCNSQGTAGHEGGPTQ REAVFPFQ\PGKCCRGVAFTFRT RANLNRSSLPDGITEFQVSPNGF NL\EAINYMAA\DGGLSRSKCV AFD
19375	49743	A	19488	2	440	KQQCRDTGDEVVCSCFVGYQL LSDGVSCEDVNECITGSHSRAF GESCINTVGSFRCQ/RISSCATG YELTEDNSCK\DTLGSFRCRPKL QCKSGFIQDALGNCIDINECLSI SAP\CPIGVTCINTEGSYKCQKN VP\NCGPLVNHLKE
19376	49744	A	19489	2	2061	
19377	49745	A	19490	2	2120	
19378	49746	B	19491	63	255	

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19379	49747	A	19492	2	1941	PPPMERAAPSRRVPLPLLLGG LALLAAGVDADVLEACCADG HRMATHQKDCSLPYATESKEC RMVQEQCCHSQLEELHCATGIS LANEQDRCATPHGDNASL/EAT FVKRCCHCCLLGRAAQAQGS CEYSLMVGYQCGQVFQACCVK SQ\ETGDLVDVGGLOETDKIIEVE EEQ\EDPYLNDRCRGGGPCKQS\ CRDTGDEVVCSCFVG YQLSD GVSCEDVNECITGSHSCRLGES \CINTVG\SFRCQRNSSCGTGYE LTEDNSCKD\DECESGIHNCLP DFICQNTLGSRFCRPKLQCKSGF ITRML*GNLLLDIQWSVLSIQLP RCPIGD*HG\NTEGFYNVPEGT CPNCGPLGYHLQRGRGTRCV\D VDECAPPCLSPVGKG\HR\CVE LFPGSFPLAECKDGVTFDGISR DVLFDVQRSCQRLPRGACC\GH K/CTENTLGSYL\CSCSVGF\RLS VDGRSCEDINECSSPCKPGSVA NV\YGS\YQCY\CR\RG*PASAIV GWEFTCERTFDGVAALPHRGH TFWFLTAGIQTSWGSPVAACP SSGLTGWAPNGPATCQ\DI\DEL C*LGIHNCFHSTEDLVSNIPGAG FRCLGLSSCPENYRRAAT*S*G NSCMRAIGAGWEKEKGLAGS
19380	49748	B	19493	123	237	
19381	49749	A	19494	285	456	VINKRLVCTRLLRRKWSCLQPH RMM*VQAGSRGSQPKYHRHE MGWTGHTDTPPHRL
19382	49750	A	19495	383	693	NFLPAQCLSAPPS*S/RSLLDNS PLNCKAFHSSSHLLKLESCSE NSPGPLLQPGGTCLGACPGCFS FSPGISAGKPLSKAASPPVCTGS GAETSTTPPSPLR
19383	49751	B	19496	28	236	

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19384	49752	A	19497	1	927	PAAPQVAGRLGLGCPLHLHVF AVVSAMLPLLRCVPRVLGSSV AGLRAAAPASPFRLQAPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGSGCGSLHTDGDCAF VDFLSDEIKEERKIQKHKTLLK\ MSGGWELELNGTEAKLVKVA GEKIPVPF\NINNSIPP\TFDGE TLARARRFEDREPELTSLPKF\ VE\VIKND*WQERPLVLD\HYP EDEVGQEDAESEDFSI\REV SFQS\TGESEWKDTNYTLNPDSFW TGPLYD\HLMGFP*PNRGVDNTF A\DE\LVELSTAPRSPPGVPLPFP
19385	49753	A	19498	3	342	LDTNLPANRVPAGLEKRLCAA AASILGKPADRVNVTVRPGLA MALSGSTEPCAQLSISSIGVVG TARDNRRH\GAPFFGFSPRELAL GQDRILIRFFPLESWQNGKIRTGM TFL
19386	49754	A	19499	3	520	SSARAVSVPLPAMPFLELDTNL PANRSARGGWRKRLCAAAASI LGKPA\DRVNVDYAGGFAIGA *AGST\EPCA\QLS\ISSIRRWGT AED\NRSHSAHFF*VSSPRELSP GARDRIILFRFFPLESWADWAR *GTVIDFFMIWGTEGFQGHVLN LAASFQKRSSWAEVKGLG
19387	49755	A	19500	7	355	
19388	49756	B	19501	172	479	

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19389	49757	A	19502	1	1656	LEDPDSSSRPRRAGSGHSASFPP PPLEQLWRQVKTLNPKAEVAR AQAALAVNISAARGLQDVLRT NLGPKGTMKMLVSGAGDIKLT K\DG NVL\LHRNCKFQHPTASL\I AKVSNKPQE*YNLVDGTDLIV LINWESLLKQA\DLY\ISEGLHPR IITEGFEGAKEKALQFLEEVKV SRE\MDRETL\IDVARTSLRTKV HAELADVLTEAVVDSILAIIKKQ DEP\IDLFMI\SVIMEMKHKSETD TSLIRGLVLDHGARHPDMKKR WRDAYILTCNVSLEYEKTEVN SGFFAYKSAEEREKLVKAERKFI EDRVK\KIIELKRKVCGDSKGF VVINQKGIDPFSLDALSKEGIVA LRAKRRNMERLTLACGWG/M PLNSFDDLSPDC\LGHAGLVYE YTLGE\EKFTFIEKCN\NPRSVTL LIKGPNKAHTSLRIQRWQ*GDG L*GAV\KNAIDDGCVVPG\AGA VGSGQWAGSPGFKHKPSC*RA RAQLGSPKHLLDAFAHYFPKVL CFRNSGFLTFOGNIKKFKAE\H SESG\QLVG VDP*TPGEPNWWP ARSKAVWG
19390	49758	A	19503	2	424	EGPVMAPPNPGPATLGGPGPDP DLGRLPLHEVFLHIRVPARPRG APLHRRGLRGRHAVRAVRQRR REPEDGAAGAVDRAGGAGVLG RGDRESEGPLTD*PREPADRAP LLQPERGRFSHPLPTLTCAPSPII FPVAERWG
19391	49759	A	19504	3	174	
19392	49760	A	19505	2	153	LPLHEVFLHIRVPARPRGAPLH RRGLRGRHAVH*PSEPGDPARL LQPERG
19393	49761	A	19506	3	354	EDGRHGAPNPPPATLGGPGPDP DLGGLPLHEVFLHIRVPARPRG APLHRRGLRGRHAVRAVRQRR REPKNAGAAGAVDRAGGAGVL GPGDTEYEGPLTD*PSEPGDPA RLLQPERGR

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19394	49762	A	19507	3	1246	GSTHASARMAVMA PRTLPPAT LGGPGDPDLGGLPLHEGF\LHI RVPARPRGAPLHRRGLRGRHA VRAV\RRRREPEDGAAGARG* EARKGPE*LGRG\NTESEGPTH LDPSEPGDPARLLQPE*GRFFTP FQIMYGC\DVGSDGAFSSAGYP QERLTNGKDYIALNE\DLRSWT AADMAAQITKRK WETPPMRRR SLRAYLDGTCVEW\LRRLYENG KETLQR\TDPP\KTHMTHHPIS*P *RPL*RCW\A\AFYPCGDHT*P WQRDGVEDQTQGHGSLLETRPA GAG\TFQKWASMVVPSGQEQR\ YT\CHVQQ*RVLPKPLTLKM/W EPSSQAHPSPIRGASFAGPWFSL GSL*ITG\AVGRCW*C*RKEQLR WRRGER*KKEGAYSQGCKASD QCPGASDVSLHSFVKVLRQLAL
19395	49763	A	19508	1	392	
19396	49764	A	19509	1	220	
19397	49765	A	19510	3	500	
19398	49766	B	19511	28	134	
19399	49767	A	19512	1	1662	MAASVVCRAATAGA QVLLRA RRSPALLRTPALRSTATFAQAL QFVPETQVSL\DNGLRVASEQ SSQPTCTVG\WIDVGSRFET\EK NNG\AGYFLE\HLAFKGTKNRP GSALEERRWRA WGAHLNAYST REHTAYYIKALAKELPKA\VEL LGDIVQNCSLEDFTD*GRNVDV ILRE\MQEN\DAS\MRDVVCNYL HATAFQGTPLAQALEGPSENV RKLSRADLTEYLSTH*QGPSKW CWAAAGREWEHQQLFRTFAQE GTSVGIP\WTYAEDAVPTLTPCR FTGSE\RRRDDALPFAHVAIAV EGPGWASPDNVALQVANAINIG HYDCTVYGGGVHLSSPLASGA VANKLCQSFQTFICYAETGLL GAHFVCDRMKIDDMMFVLQG QWMRLCTSATESD\VDRGKNIL RNALVSHLDGTTTPCEDIGRSL LTYGRRIPLAEWESRIAEVDAS VVREICSKYIYDQCPAVAGYGR SLGLPFHLCSRTAAQLTEQPVK APSSSPQSPGCQGVLAQKTCPS SLTACQGAFINTLHPSGPIQLP DYNRIRSGMFWLRF

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19400	49768	A	19513	2	1693	AQSTLARRNRADCSWKMAASV VCRAATAGAQVLLRARR\SPAL LRTPALRSTATFAQALQF\VPET QVSLLDNG\LRVA\SEQSSQPTC TVG\WIDVGSRFETEK\N\DSGA GYFLEHLAFKGTKNPALAVPW EKEVESMG AHL\NA\YSTREHT AYY\KALSKDLPKAVGALGDI VQNC SLEDSQIEKERDVILREM QENDASMRDVVFNYLHATAFQ G\TPLAQAVEG PSENVRLSTA DFTRYL\STHYKAPESVLPQTEG VRTEQLLDL\ARNHRVHIP*TY AEGALPTITPCRFTGSEIRHP*D\ ALPFAH\VA\AVEGPG\WPAPD N\VALQVGN\IGHYDCTFGG\ GVHLS\SPLG\SGACGPTKLCQS FQTLS\ICYAEDGLCWVHTLFC DRMK\IDDMMFVLA/QGHWMR L\CTSA\TRSEV\ARGQKNIPQK MPLGISS*DGNYSLCVEDITPAA LLTLWARRNPPGLKWES\RIAG GGFQVVVR*DLAPRYIYGPSCP AVA\GYWPH*SMLPDYNRIP*P ACFWVAFFRAGKPMVKQKGR GGGLWSPPPPQTQHFRLLLTCC
19401	49769	A	19514	46	422	
19402	49770	A	19515	568	1567	GPWAANGVVLAFFPCLGSPAP HLAPQKAVPPKWGISSLC SFHF HIYQVGGVAF CGRIRFLSSTDF KRRAGGSGSLMSQEEKHEL SG KIRSQIMDDHARPYLYTMSNCP CWAGALGPQESKCSRGRLLHR AFPSLV\TLLLAGQATTGLLSCY QQQGAGWDKLD SHRPRNLAA WEEPCGMEAFPKPSQSLVEAKI AQLATPGLLDCKAACPWGAPC PRGPMQNATKVIGNM\TEDHV DAPGSRNAEPP*KVYPP\KGSF P/EKNLRHLKNTMETIEWKAFE N\MMHHWLLFELSKQSLWEQ/ QSPLDAPPK/ENSLELED PSSGL GVTKQDLGPVPM
19403	49771	B	19516	1	1428	

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19404	49772	A	19517	1	2293	MARSEAAAAGPGPGPPGLAAR ERRGGRGCVRGCEASVRVWS VALRRARRAPARPYVARCRRV RRPARVAIGCGGVSSPAGVSGC ARVSPERPPRLRCVWALSRAHG GAVCRAGPGPDSLKRGLTSHPP AFPLHHGSRLLLLGPLSPPPAAL PFLLLLWAGHLVAS/ACPGRCIC QNV/SPTLTMLCAKTGLLFVPP/ SIDRRVVELRLTDNFRRHAN MTSLV/QLTLRNTIGQVAAGA F/VDLRALRALHLDNRLAGC/ GGDQLRGLGNLRHLI/VGNNQI RRVESAAFD/DLLSTVEDLDLS YNNLEA/LPWEAVGQMVNLNT LT/LDHNLDHIAEGTFVQLQSW A\RAQAAHPLTVSFGGNPLHCN CE/LLWLRRLTREDDLETCASP N/NLTDYFWSIPEEESCTRCQR FCG*ASLVAAELTSNSVLIRW/S TQRPVPGIRMYQVQYN/SSVDD SLVYRKYSLSYMNPTMIPST SQTFVLNDLAAGRAYDLCVLA VYDDGATALPATRVVGCQFT TAGDPAPCRPLRAHFLGGTMII AIGGVIVASVLVFIVLLMIRYKV YGDGDSRRVKGSRLPRVSHV CSQTNGAGTGAA/AGPGPAGPG PLRGAARGGVP/WLPPSPSRPR PWRPR/LASAEPEVVLGRSLGG SATSLCLLPSEETSGEESRAAVG PRRSRSGALEPPTSAPPTLALVP
19405	49773	B	19518	97	255	

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19406	49774	A	19519	1321	1728	EHAHDRDLHHAHYVQATLVR ASLREAVVGSPTDAWLQQR TARSSASLLARNRPATSVWLPRA GFIAGTGRRERRRGSEGWEGG GAGGTGAGLSAHSQTSACEGS/ CGGSAGRGRCLLSAATPPLQPP RPAPPTAGLVQPRQVPTAPPRA SAGNEHHQGWSGRL*KSLAAA RVGEAPGKLPRPRDFRKQSN GALARASLRVSAQPGTCSSSAAAF PPLGPAPLAAPARSCDESGPRQP DGRGGPVPGQQQQRGA/ESEPCA AATRRPWVNRRT/TSRREARTS VACT*CAWCRSRSCACSHSPWS SASSSSAAICSSSPRA*STSS*RT GGRLRRWRRWSWGPTDPPYAP AATAPTPAHFASP/ACAPHYQR LGEANLSESIISLD/CRPFGKKRP VSPSPSESPHAWQSEESAQTLN SAESGKKRAIRAQNFGR/LLLT WNAGRPTVRRPFSTRRWAKLW GQVERAGRGETQRH*SPCDRKS DLLKATQQTHGVSQIRVVRSP LFSLLPPCPRKGGANKIPLNCKR ARFKKGFVFCLEIQMFE
19407	49775	A	19520	192	447	
19408	49776	A	19521	1	591	
19409	49777	A	19522	281	421	
19410	49778	A	19523	174	512	
19411	49779	B	19524	67	1166	
19412	49780	A	19525	1	1620	MGA KDGRLLSESSQGLSSCGAS LVPFCVSKSRLLMKTPVRLDKE TVSTVDSGAPTDLAQLPTVLKQ PCCSVMASGQFVNKLQEEVICP ICLDILQKPVTIDCGHNFCLKCI TQIGETSCGFFKCPLCKTSVRK NAIRFNSLLRNLVEKIQALQASE VQSKRKEATCPRHQEMFHYFC EDDGKFLCFVCRESKDHKSHN VSLIEEAAQNYQGQIQEQIQVL QQKEKETVQVKAQGVHRVDV FTDQVEHEKQRILTEFELLHQV LEEEKNFLLSRIYWLGHGTEA GKHVYASTE/PTVERSQEAH*FP VCLLASYSDEISGQGASSQDTKT FDVALSEELHAALTSAPDLILS QDEIVTLNLASQGGSQKRGNPR RFYRRGFLEVEPLTGVELHSS GSQCQALIESGSREDLPVCPNK
19413	49781	A	19526	203	359	

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19414	49782	A	19527	135	466	DPAGSSAASMSSAAGLCALTPP /GLLSLGLLLLPLVVAFAAEAL EEDGDLQCLCVKTTLPGSVPGH IHQLGG*FKGRDPHCPTCPT**A TVEGMGRKILLGTWQAPLLOQ
19415	49783	A	19528	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPQAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
19416	49784	A	19529	337	509	ISQQLLVVLGINLRSWLPQKL CKYLKQDVLTAIDLSVEVPEFC PFVDHLVVALEEEGPAL*GHPA SDTYIVFGEAKIEDLSQQAQLA AAEKFKVQGEAVSNIQENTQTP TVQEESEEEVDETGVVEVKDIE LVMSQANVSRAKAVRALKNNS NDIVNAIMELTM
19417	49785	A	19530	91	1019	GELLALLGHRVPTRPWASGQK GVCGWCPGKSTLQGLRCGPTIR ACRDGSSCSVEGGRGVRLVLG TASQDPEKEMPGEATEPVPAVT EQGVAASPRAEATGSGTESDSD ESVPELEEQDSHPGQPHNKAQ AGRQQSEIDEDPVS\KAKQSRN* KEGPGRAMSQTGVFGQVTGVT KEFT\ARKSKNILLCHPPKPDVY QGAPASRYFTIVFGGSPRSEDLS PSKHNLASCLRNSKFQGEAVSN IQENTQTPTVQEESEEEVDE T\GVVEVKDIELVMSQANVS\RA KAVPSPEERTSNDIVNAIMVSV
19418	49786	A	19531	1	261	MWGHFHSHPGTGQARAYTDT GSPILIMHVNRRGRHSEIPVLER NLLHFRMDAST*NLGMSSLME AILKNQFRHVSLAVSFAFSGEK
19419	49787	A	19532	277	349	
19420	49788	A	19533	792	1014	

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19421	49789	A	19534	849	1752	GESRGWERRKCVRPLSSYATHL SVCDCHIGNVREGADPAGGAG *L*GARQQQTHTHKPAKATQR GEDREEKKRETKREERLGQQE NERDERGRREKEPRNRGTRRRE AEKGRRR/ESEKREEKGEEER QERQQKRAREKRRGRGARRRG REKKKTQRPRTQAQRPLKKIK DYTHHTTQTPTQQHHTHTTKH KQPHTNNTTVFLFFFLAKEHR RAARKQHEPERGRGGGSKAGA KIKHTSIAAAADRRHDRPTQRD TRRKEGRRAQSGKHGRTAHKT EAGGGIPVHSTSRVQVILLQPP
19422	49790	A	19535	139	470	
19423	49791	A	19536	2	83	
19424	49792	A	19537	32	434	NRRKGA\GPVFQRAT*KH/RV*R AGLRAVDFA\ERHGYIKGIVKDI IHNPRR/GAPLAKVVFRDPYRFK KRTELFIAAEGIHGTGQFVYCGK KAQLNIGNV/LP/VGTMPEGTIV CCLEEPRLCRRKRTSAEGLNKV CVYAT
19425	49793	A	19538	10	443	
19426	49794	A	19539	63	376	
19427	49795	A	19540	170	368	
19428	49796	A	19541	175	427	
19429	49797	A	19542	1727	2262	
19430	49798	A	19543	131	596	
19431	49799	A	19544	695	1337	GFGTQGERRRQCRLRVTPQLG ASSATQKTPALPETPVKAEQSC TLLPSRTPGHLQPRLLDPSPW AVLIRG\QRKGAGSVVRRATLR HGK/GAVRRLRLRRWISPERHGY IKGIVKDIHRPRSRRAPPLRQR WFFRDS\YRF*ER\TELFIAARG AFHTGPSFVYCRQERPSFNIGQ WCSPVGHHCLEGYNSCCLPWK EETLETCKGAGPGAFKGN
19432	49800	A	19545	1	813	
19433	49801	A	19546	227	381	
19434	49802	A	19547	135	740	PQPLPPPTSMARHVFLTGPPGV GKTTLIHKASEVLKSSGVVPVDG FYTEEVRRQGGRRIGFDVVTVVR HPGGLLSRVGLEPPP/RENVNAE LGSYVVDLTSFWSSWALTRLE GM*ADCQQWAQGQRCVIDEE LGKMEALSVK\FSKAVRQTL YPRDI*SL/VHKSQVPKGKPLAL VEEIRNRKDVVFNVQTQENRN HLLARYS

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19435	49803	C	19548	251	574	
19436	49804	A	19549	2	450	
19437	49805	B	19550	721	3048	
19438	49806	A	19551	3	396	
19439	49807	A	19552	2	450	
19440	49808	A	19553	2	1152	GPPLHCTRAAGIRHEAPLGLAG LCRAADAGLCSAGWGFVKVV KNKAY\FKR\YQVKF*KTPERV KRDYYARKR\LVIQDNKYNT KYRMIVRV\TNRDINLSRLLYA PV*RGDMDSLAQR*LHTELAKI LVVEGLALTNLLPAALFVPGPA CLAPQAFLQ*VLAMDKDLLEG PSWS*LGDEYNV\ESIDGQP\GA FTCYL\ADLARTTTGNKVFG\ APEGAVDGGLSNPHSSKRFLG/ YVYPLHSTQTDSPGFMDSEKQR NFNARSTSGKHIMGQ\NCLQDY IAL*WERKMKDAYKK\QFSQY IK\NSVT\PDMMEMEYK\KAHA AIRE\NPVLWKRRLPKERSLKRR GWNRSQNVPLLRKKDRVA\QR KASFLQSSRSGLLES LTPAIFP
19441	49809	A	19554	3	991	LTSRGVGS CAVMLLLVRAGAR AWLRPTGSQGLS\SLAEAAARA TENPEQVASEGLPEPVLRKVEL PVPTHR\RPVHAWIESLRGFEHE RVCLVDLHPDVFANAPRLDILH QDAMLQKNF*RISYAKTKTRAE VR\GGGGKPLAAERH\WAGPA WQHPLSALARRRCCPWPPGP/T SYYYMLPMKVRALGLKVALTV KLAQDDLHIMDSL*L\PTGDPQ LP*PELAH\YRRWGDSVLLVDL THEEMPQSIR\EATSRLKTFNLI\ PAVGLNVHSMMLKHQTLVLTLP TV\AFL\EDKLLWQDSRLQTPLY PFSL\PYSDFP\RLPHATQGPVA ATPYHC
19442	49810	A	19555	31	305	
19443	49811	A	19556	213	541	DGGPAAHTPGAARGELSPVGD SGGYFRPSHLRCWILNLCISVPL SSAKDLLHPSSEEE\RRNPMKN RLVQSPNSYFMDVKCPGEETV CCIGESTGPQQLENVVVLAVSY

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19444	49812	A	19557	164	591	DINSRDRSGPRATRIDGSGEGD KMAAQLRRHQGRRGASSPRFA KD\LLHPSPEE\EK RKHKKRL\ VQSPNS\YFMGV\KCPG\CFKFT TVF*AMAQTVVLCVG/CAAPLF LCQPTGEKARLTEGCSFRRKHA LKATLSQDEWETILQ
19445	49813	A	19558	362	916	GGRCTMARTKADWPANRTGG KAPKEANWLTKSPLRKSAAALY LEGSKKPHRYR\PGTVAPP*NLD GYQKST\ELLIRKLPFQ/RRLVRE IAQGLLKQDSRFQ\SAAIGCFAG RQVRAYLVWPFLKDTNLCA\IH AK\RVTIYAKKTFQLSTPAYRG EPCFKDPLMDGETFHSQKKKK KISLLPVIGSSER
19446	49814	A	19559	849	1261	DGHIAGGPCS*GWPRDPAPKSQ PTMSSGSEPEKLPPAPRPQHYCS PAEVSGPRFAVGIKALNQQAFT ERRLHTSLCPVPAALTVPSPESL PQPQIFPGLAPATHLYSKAWA GATVSRPGAILGAGLYWGLVR ETAS
19447	49815	A	19560	3	1852	
19448	49816	A	19561	362	1298	QGGRNVRHPSPLLAWGSDLIV KPHWLHWLLDLNHARLSALFA AAGARLPSHIPAPSAGSRLLLLL LLGGCRACLLFFPEMANRGPST GLSREVQEKIEQKYDADLENK LVD\WILQCAEDIEHPPPGRAH FQKWLM\DGRVLC\KL\INRLYP PGTRSPYPRFSESKDGFLGRWE QISQFLKA\AETYGVVTTDIFS RRWFLWEGKDMAACAEGP*L ALGSVA\TKDDGCGYRGEPSWF HRKAQQNRRGFSEEQLRQQQN VIGLQMGSNKGASPGGP*TYR ECPRQIHVTRHPAPWLERTNV STPWSFTKKK

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19449	49817	A	19562	3	2518	AAGEWPQRPRAAVAAAAGAAA RQRLPGSRQVAAGAPQPAGGG DPSQR\PPGAEILIKVQVYVSGE LVPLARASVDVFGNRTLAAAG TTDSEGVATLPLSYRLGTWVLV TAARPGFLTNSVPWRVDKLP YASVSLYLLPERPATLILYEDLV HILLGSPGARSQPLVQFQRRAA RLPVSSSTYSQLWASLTPASTQQ EMRAFPCLPGH*GSSSGNGSW LELMPLTAVSVHLLTGNGTEVP LSGPIHLSLPVPSETRALTVGTSI PAWRFPKSGLWVRNGTG VIR KEGRQLYWTFVSPQLGYWVA AMASPTAGLVTITSGIQDIGTYH TIFLLTILAAALALLVILLCLLIY YCRRRCLKPRQQHRKLQLSGPS DGNKRDQATSMSQLHLICGGP LEPAPSGDPEAPPPGPLHSAFSS SRDLASSRDDFFRTKPRSASRP\ AAEPSGARGGESAGLKGARSA EGPGGLEPGLEEHRGSPGAAA FLHEPPSPPPFDHYLGHKGAA EGKTPDFLLSQSVDQLARPPSL GQAGQLIFCGSIDHLKDNVYRN VMPTLVIPAHYVRLGGEAGAA GVGDEPAPPEGTAPGPAPFPQ PDPQRPQMPGHSGPGGEGGGG GGEGWGAGRAAPVSGSVTIPV LFNESTMAQLNGELQALTEKK LLELGVKPHPRAWFVSLDGRS NSQVRHSYIDLQAGGGARSTD
19450	49818	A	19563	206	1126	LESGSHIYAFSHESLLHVASAS V*TSFSDFATSVCHSPLHCQLH HALIPHGKGECS\VSGIVATGF GATGFLGRCVVNHLGRVGSQIP QAIAQVSKEAEVGKFIHVAHLN VNIKSSSRYLRKKAVGEKAVR DTFPEAIIVKLLDIFGREDRFLN YFANMCWFGAIPLVSLGWKAV KQPVYVVDVSKGIVNAVKDPD ANGKTFAFVGPNRYLLFDLVK YIFAVAHSKGWVARDFEISPFE SWTTRDKVERIHITDMTLSHLP SLEDLGIQATPLELKAIEVLR LH HTYCWL SAEIEDVKLAKTVNI

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19451	49819	A	19564	196	553	KLSSFFLTHSINTAIRNGNLFV NRVTEVTRSGGNELGSCFLAI KFTLLSFLGTGTRLLPALRPRR LQQRGSHGLAGRLFTLWILHA GCHARGELLEPDTC*LSLCRAR KPRSLTLK
19452	49820	A	19565	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVPDAKIRIFDL GRKKAKVDEFLPCGHMVSEY EQLSSEALEAARICANKYMVKS CGKDGFIHVRLLHPFHVIRINK MLSCAGAD/RIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGV KYIPSRGPLDKWRALHS
19453	49821	A	19567	6	904	AQLSSLAVPLLVLTPFRSVLVFR SDSLFFVAATEDPGVAMGRRP A\RCYRYCKTKPYPKSRFCRG CPLMPRIRIFDLGRKKGKKWN EFPLLCP/HMVSEYEQLSSESP GRLPRICPNK\YMVKSCGKDGFI HISRVRLHP\FHVIRIHKMLSCA GADKAPKQACRGAFWKSPKGN LLARGSQLAQVIMSIR\TKLQN KEHVI*GPAARPSFKFPGRQK\I H\SKKWGFTKFQC*WNLKDM VAEKRVHPHMACGGQSTSPSR GPLADK\WRALPLHEGLPNVAA HPLNTPPIKFLLPWSKKKKKK
19454	49822	C	19568	346	471	
19455	49823	A	19569	1495	2780	EGLHLFCDLLDGLPGVQVAGG FDSFSSILASFTYWHDFPNSTML LSTFRDINLGMNIIKKS\VCFSR LGSETWEMPANLRPSEGGART RTELSRPQTSPRAHLAWRGRGG LGAVRPRRLSRRRSLS*KP\RSLS* AEAPAGAPVRRRCRPAAPP/PPRP SRCGPSTPPPPPSPGA\PRRRRPP CSEHNKLSPPPPSSLCRPAAPSPP RPAPRRSPSRRRRRRRHPRPAD RREPLASATRVRLPPPPPPR*PP SSSCPRRGRRFLAPWLARPAG APRRAPCSRAARSRRAGASGAR VGDPAGAGRGWRRRAAGRP* APERRPPPLPAVCEVSGGPLRA SFADSVPGVRRRRPPGLGTPLSS SGV*PRNERGVETTTWGGGSE GAPGSGEGNLFAPQVIVARS GEGTVVPRFPVCQLRDSAVLLC LFD
19456	49824	A	19570	178	256	

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19457	49825	A	19571	622	1726	QSGSRTMMRMLVPASVGLLET GPPGDPSLSHPLSGDVTVLPE Q\STVQKLASDHKDIHSSVSRV GKAIDRNFDSEICGVVSDAVW DAREQQQILQMAI\VEHLYQQ GMLSVAEELCQESTLNVDLDF KQPFLELNRIEALHEQDLGPA LEWAVSHRQRLLELNSSLEFKL HRLHFIRLLAGGPAKQLEALSY A\RFHFQPFARLHQREIQVMMGS LV\YLRLGLEKSPYCHLLDSSH WAEICETFTRDACSLGLSVESP LSVSFASGCVALPVLNMIKAVI EQRQCTGVWNHKDELPIEIELS *SAWYHSVFACPILRQQTSDSN PPIKLICGHVISRDALNKLINGG KLKCRYCPMEQNPADGKTH
19458	49826	B	19573	271	392	
19459	49827	B	19574	58	296	
19460	49828	A	19575	215	861	QLPAESVRTRGPAKAQARAGG PPGPWHCSYKWRAWPSSLSGT GWPDMEGETTAAAPASRENSA DCS\AGELRGPG\KELWSPIQ\Q VTATSS*MGRDFVLAT*EKVSH VDS*/EQPRSLQR\DRP\AGPAQ AKQGT\PRASRESL\SRPTAA V\QLPSGPQHPV\TSGS*KGLAG KTSMGRKGLPWARGWAPWSL EAQNP\RPTRLCDL\FITGEDFDD DV
19461	49829	A	19576	65	782	SSSSSAIQRKPRWVLYKYIQEL WRKKQSDVMRFLLRVRCWQY RQL\SALHRAPR\PTR\PK\ARRL GYKAKQGYVIYRIRVRRGG\RK RPSFLKGAT\YGQSPVHSWVFN QLKSFASE/VLSVPFARGRRSLG RH\CGGLLEEFNFFNWVWVER FPHYQIFLKVIPHLIPFP*KLFRR N\PD\TQLIHQNVH\K\HR\EMRG \LTSARPEKSRGLGKGKHFHTI GG/SLRRATWRRRNTLQ\LRHY R
19462	49830	A	19577	1	179	QEDYLRELLTTMGDR\FTDEEV DELYREAPIDQKGG/MFNYIEFT RILKHGAKDKDGLKEL

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19463	49831	A	19578	144	722	KKGLNHHHHVEQNNTNTRPRPRSG PQRATSN\VFAMFD\QSQIQEFK EAFNMIDPDQDGFHRPGKICND MLASLG\KNPT*WSILDAMMNE \APGPPSNFTPWFPHHGFGEEV* MATRS*KMVIRKCLTCFE*KK PLGTI\GEDYLARELLTTHGGIGF TDEEVDELYREAPI**KRGISITS EFTRILK\HGAKDKDD
19464	49832	A	19579	3	429	VACLREHKQRCERATRSLLREL LQVRARVQLQGSELRLQLQEA RPAAQAPEKEAPEFSGLQNQM QALDKRLVEVREALTRLRRRQ VQQEAERRGAEQE/DRPQTGQA DRLAAAGGAGPGGGLRRPAEE PRGQQPEGPGGGQN
19465	49833	A	19580	1	2454	RFPAGVAPRRAMANVSKKVS SGRDRDDEEAAPLLRRTARPGG GTPLLNGAGPGAARQSPRSALF RVGHMSSVKLDDELLEP\DM PPHPFPKEIPHNEKLLSLKYESL DYDENSEQLFLEEERRINHTAF RTVEIKRWVICALIGILTGLVAC FIDIVVENLAGLKRYRVIKGNIDK FTEKGGLSFSLLLWATLNAAFV LVGSVIVAFIEPVAAGSGIPQIK CFLNGVKIPHVVRLKTLVIKVS GVILSVVGGLAVGKEGPMIHSG SVIAAGISQGRSSSLKRDFFIFE YLRRDTEKRDFVSAGAAAGVS AAFGAPVGGVLFSLLEEGASFW NQFLTWRIFASMISTFTLNFLV SIYHGNMWDLSSPGLINFRFD SEKMAYTIHEIPVFIAMGVVGG VLGAVFNALNYWLTMFRIRYI HRPCLQVIEAVLVAAVTATVAF VLIYSSRDCQPLQGGSMSYPLQ LFCADGEYNSMAAAFFNTPEKS VVSFLHDPGGSYNPLTLGLFTL VYFFLACWTYGLTVSAGVFIPS LLIGAAWGRLFGISLSYLTGAAI WADPGKYALMGAAAQLGGIV RMTLSLTVIMMEATSNVTYGF IMLVLMTAKIVGDVFIGLYDM HIQLQSVFPLHWEAPVTSHSLT AREVMSTPVTCLRRREKVGIV DVLSDTASNHNGFPVVEHADD TQPARLQGLILRSQILVLLKHK
19466	49834	B	19581	508	4413	

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19467	49835	A	19582	8	331	EVTACWQSSQPSLTLSASSAWA STLAALPEPFPPLHSESPFLGW PRPELGPSAAPCAPVPPPEPPQRV PPPAP*RPVPSTTQGLRSVGAW CRTGRQLHLHPGVGSTG
19468	49836	A	19583	831	1121	
19469	49837	C	19584	1	1524	
19470	49838	A	19585	270	578	RFSKSPDPSGAQLAAPSGSRTG AAGGAACQSRAVRPHSSALGW SMGLGAMEQGAFLVGEAWAT QQPTVGGRLRHGGLQVPSPAPR GG*GPAKSHSSCWPRC
19471	49839	A	19586	2	298	
19472	49840	B	19587	113	515	
19473	49841	A	19588	1	569	MLPDRLRSPVAHHRCRASGNY HSGRHSPAPAWRVTLTGWLDQ RSSRIHRSIAFKDSYSKGKEERT HIKGMCELLPSG/EARGLAGFR SEADLRGECYSS*RQCGPKEL RSPAGFTQWIPHWGYRWSCLS VPRPAPALLSPWVVDGTGRCCG AGGGAHRRGGSGRGAHGGGG RLRHGGLQVPSPAPREGS
19474	49842	C	19589	1	1200	
19475	49843	A	19590	511	846	ARHRVLIGVFTIPELDIKVLHVP TRLRSPASFTQWIPHWGCRWSC LPVPRRVALLSPWVVDGTGG CGAGGGAHRGGWGCTGAHGG GGRLRHGGLQVASPAPREGS*G PARN
19476	49844	A	19591	9	481	QQPLREKPASGDHPAKNANRR WSPTRYPYVES*NWMPSLHLI QKSIQDGLKT*TLCLKP*KL*KK T*ALPFR*ARTSCLKHQKQ WQKTKLTNGI*LN*RASA/PA KETKI/SSEQATYKMGENFHNL LF*QRANIQLQ*TQRDLQEK KQPHQK
19477	49845	A	19592	1	3339	MSVRKDVEKLEPSDIVCGNVQ CYSCMETNLTVSQVKHEVTV GPREGATKPNRMKGKEGRSGS LLGEGDFFKDESVMSSQGSSKD GEKRRGKAQRWKWPMQGICR QLGVAKSMEGYQSRRDQGGR GVSDKWPQVCAKKPEFYPTAQ VWANFSVTSCQSVTITQLCHGL RRLEISPARSNAMHLNPDPPGQ KQNLSPKVNDIITDISSSGSGA GKFQVISKSDISEVLLQQMDAG HSSKDDPNEYGGWKSPPRC
19478	49846	B	19593	1	631	

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19479	49847	A	19594	71	208	PCPKHCSKFPMPCELVGSWSH* LQE*SHGPSRFRLC*KQPQDLQ
19480	49848	A	19595	138	650	AWAQLPSALGSTRVSPPPSARS QPPWRRRHKVCWRLNRCKE/L DEDAVASADFSMLSEEEKEEL KAELVQLEDEITTLRQVLSAER KAS/ELR*NKNSA*T*/CNELKPE LQOKLA*HAD*HCLQEDT*YAE SRRAKGNCSFQQRWNGHQQEV RRHELLHSPFHKYACYETKVG
19481	49849	A	19596	1	1222	MRA DGTAGKDPFATDKQLPEL LIQHCDWGLLAVCGGSTVGVR LPFILHGSWVRPVAASFPLPDN LHDSAEPAILLEPTQMRRNQK TNAGTMTKQISSTLPKNHHTSS PAMDPNKEEIHDLLEKEFSRLVI ELIREGPEKGKAQCEEIQKKDT KVKGEIFKEVDSLKKKQLNIQE NLETLLLEVNLALESLSNRIEQVE ERN SEREDKV FELTQSNKDKA QRIRKYEPSLQEVWDYVKLPKL RIISFPNEEENSKSLENIFRGRIK EHFHSIARDLDIQIQEEQTPGK LIVKRSLPRHIVIMRAPTPMDHP RAEECGRRARDWQAAPPAAPV RDPLGEASWAPDSEGRK\WNTS KHQRNKLRLTRHL*EL*HSSRGS VASFLKSVRPRTHQFQTQSGYP KLRWRKES
19482	49850	A	19597	381	598	
19483	49851	A	19598	1	1906	
19484	49852	A	19599	493	589	
19485	49853	A	19600	60	261	
19486	49854	A	19601	1423	1831	PRRSANVNLPPPQLATLSPGWP EERKSVGSPTSPPPPRPLRRLSA APG\SGGAWPEPGAWSLD*TAS PAGAPVQRPAGNG/PSALDASH ARALYLQRIPRVTWTPASQPPA PLGPFLPLIPPAASHRQPSSSFFR RHR

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19487	49855	A	19602	1	1535	MEEKTNVQLPPGQTEQHVEIHI MNFCSKNHHRITPEKPKELTDP FKEAACCCCKLYEIDKKLYRMA EWIKIHKPSICCLQETHLTHKDS HKLLKVSITFKDLAVRFSEEEWR LLEEGQREFYRDVMRENYETL VSVEPGRAVGGGSHADEGQEP AGCG/VSPGPGAAGEGDPRVLV WRSQGRYGGPRER\GRGASLD GERASPEAA/DGKRALPSRPA QLPSRRPYQPAPPG\PTDSSCS SGPTGDGVQGSPLPIRISPGNSP L/PRPHQLSEGNPCAWAPAPRDI PKLLATSP*PGHVQANQSRPGA WEPALGRSDQRACSASGSAELC ERWPQQAP/APPEEPPASPAPA APTG\PGFWESCGEPGAA\PGKG SAPKPSPLHCLESALRGILP\EGP CASPAWEAPAPAPAPAPARASA A/AEGEDPRPEPELWKPLPQER DRLPSCKPPVPLSPCPGGTPAGS SGGSPGE\APGEQSPGTAAASV Q/VSPAHWPCFS/SPVRYSSGSLP GFSAGEKAQG
19488	49856	C	19603	4	150	
19489	49857	A	19604	148	448	RTRDWSLFLLMFGCVRSFFLLV GLWSCWLRSEAADLRGECYSS *GGASGVVRSSWWVRGLTSFR SETGFTQWIPHWGCRWSCLPVP RCAPALLSPWVVG
19490	49858	A	19605	136	439	LVHFTEC*LVRLQTLARHSTDW CIYKSLARQKSSPSPHSTQEVQL ASPLTGRQEDCSEPRSAPLHSSL GPTERDSICVAASSVRWTRPGA RFS
19491	49859	A	19606	2	399	SKLQKLRSLSFKTKSLRSKSA DNFFQRTNSEDMLQAHMVAE ISPSSSPLPAPGSLTSTPARLVCI QVARLMPFRNTSSRSPLFC/RCL QPHDSGFLFLRPARPRAHREER NNSRRVALRAVTLTTERLQLHS

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19492	49860	A	19607	1	1262	MPLSYAYKNAETLAGRHTSSW MSRGAYQRRNTRAAGRPEECT DRNWHAGRTRRIWLGQLEERC SDVFGVSFFWWVRGLAGSGAK LQTFTVSVTAHRGSKDQKSEQ KQDLLQKAKEQTIHNVKGDPS ELPLLAPAACFYSLICPRPPHIL LIGPFYRELIGPFYRELIGRQLRP GEKSSTAA/VWPRC*AA/RLPGA G/WTAPSAGPAEPTPTWNSRWP ASATRRPGSRRRLSLHTSPQAE GAGSGLSQPRKGLPQCSGRLKR SSSAARVGVARQRRRRERASEG/ WPACCHLSVLPCGFGFLEAHSS SPEQTDHEQNCPADIKVMRLA GQPTNARGAANRAQPLHSTSV SHLKAVIFKIQTRQQKNSHFPP FLEMTTSLATGRLRPSWVDYA RPALSVSVSRFSLTSLLELLV ETLGECGLL
19493	49861	C	19608	173	394	
19494	49862	A	19609	1	924	
19495	49863	A	19610	3	689	EVQEELEGPVRGAPHQLHQGP VEHLEAPHQHKGKVIYFNY LSELHEHLKYDQLVIPPEVLRIT MRSSRACTRAGRRLPPRHRR GPRCPHSSLASVCNTSKTKIKA NSSPLC*GSQ*RT*ERKACAPRA CSGDPPACRPSARSRGSTT/KGK PVNFDDYGDIHIPAVILKTFLE LPQPLLTFQAYEQILGITC/GGE QPACHSLPPDLTEPPRAQLRRPP LPHGLPACG
19496	49864	A	19611	1749	2411	APSCLVSEHSAPGPQRELPOPLL TFQAYEQILGITC\GSCPAQGW GAWSSDAVPQLLARRPPLPHGL PACGEWGRGELGVKPSGLPSH AGPAWGHQVRTVCATAHPQD CISPEGAVEEEIVGG*GC\TEGQ SQRVLQIWP\SQGVSSLSALVPL NMFTELLIEYYEKIFSTP\EA PG EHGLAPWEQGSRAAPLQEA VP RTQATGLTKPTLPPSPLMAARR

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19497	49865	A	19612	883	2164	EHRPMPRAQASHEGHRHPMRA QMSHEGYRRPMPRVQASHENTG VP*GVQASHEGTGIP*EHRCPM RTQVSHEGTGVP*ECRRPMRTQ GPMRG TGVP*EHRCPMRG TG P*EAQASHEGHRPMPRG TGIP* GAQASHEGHRCPMRGTGVP*G HRRP/DENTGVP*GHRRPMPRAQ ASH/REHRCP/DEGHRRSP*GHR RPMRAQASHENTGVP*GAQAS HENTGVP*GHRRPMPRG TGVP*E QGV*GHRRPMPRAQVSHEGHR RPMRTQASHEGHRPMPRTQAS HEGTGVP*EHRRPMPRG TGVP*E FRRPMPRG TGIP*GHRRPMPRAQ SHENTGVP*GNR/PYHEGTGVP* ECRRPMPRTQASHEGTGVP*EHR CPMPRAQASHEGHRHPMSTQAS HEGHRPMPRTQASHEGHRHPM RTQASHEGTASHEGHRPMPRT QVSHEGTGVP*EFRRPMP/GH HPMRTQASHEGHRPMPRVQAS HENTGVP*GHRHPMPRG TGIP*G HRCMPRG TGVP*GYRHPMRTQ ASHEGYR/PSHEGTGIP*EHRC PMPRTQVSHEGTGVP*ECRRP MPRTQVSHEGTGVP*GHRRPMP RTQVSHRRPMPRTQASHEGTG V*EHRCPM/MGHRPMPRTQASH EGTGVP*EHRRPMPRG TGVP*E HRRPMPRAQESHENTGVP*GAQ ASHENTGVP*GHRRPMPRAQASH
19498	49866	A	19613	1	552	VPQDSLGLAQALAGQATPEIPLGL QLHTVLVQEIQELIEAQTRAPGP CAEVRALPAPAAEPEPAWEEAP PERALELEGAPAKDQTNEELPEI TA/PYC/EPLALTLELKAWLERE VGGRG\DQHSPSQQLPCCP*SW ARWQTCRQRAGHLAWPPVPRC REASLIH*NHSPAAAGPFILLILV YLCAGGA
19499	49867	A	19614	443	991	VDSRPMLNTRLMTSGRRWTP RPQVDTRP*VNNKTQ*AIRPQ/C GYSPQVPQDSLGLAQALAGQATP EIPLGLQLHTVLVQEIQEL/RH*G TDTCSWSMCRSKSTASTSRWS Q/RPAWEEAPPER/GTGAGGSSS QGPDQRGAA*NHGGAGEH*KK AGRKSSE\RYACSQRQPPPPGM DAGPQLGIQAVCP
19500	49868	A	19615	16	450	

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19501	49869	A	19616	2	477	PRVRSGHSMMDMRVPAQLLGLL LLWLRGANCDIQVTQSPDSL SVGDKVTITCRASQGISNGLSW YQQKPGQAPTLLIYAASSLQSG VPSRFSGSGSGTDFTLTISSLQPE DVATYYCLQDYTTPTVLQAIT KTPQR\RDV*VCTVLATPPGVIN WL
19502	49870	A	19617	2	675	LPLSSALPTESGSHLPFSGIMA RPSDPLVKPQRSSKREP KKVHP GTQSDR\YVKIKR\NWAENPRG\ IDN\RVR\RRFKGQDLDAPTLG YG\SNKKTAKAHACPSGFREVPG VHNVQGSWEVACLMLQQLY CCRGSVHNVFLPRNRQSPSWG KELAQLGLSGVHPTPLARAAQL KEN*VRQLMCNKSYCAEIAHN VSSKNRKAIVERAAQLAIRVTN PNAR\SEENE
19503	49871	A	19618	2	527	VWAANMP SRLRKT\RKLT\GHG AATGHGPHRPSTRKAPPGPR* MPGGPAIHPPGSNFRQNTHPQA YFGK\VG**KHYPT*KRN\QSFL PPTVNL\DKLWTLVQ*NRHRVK CLPKNKTGAAPHHLMLVRSGY LQSSGERGKLPKASLFFVEGPK FFSRRSLREEGLRGVWGGPVSL
19504	49872	A	19619	45	233	
19505	49873	C	19620	95	154	
19506	49874	A	19621	2	241	
19507	49875	A	19622	63	320	RQWGNRLVTA/WSFFSWLSDC EGPGYGTIAEVGQLWGIMAKD LLRHSLASEELALNQNLTCHDQ FAQSTRSSARACGSIFCSTTQGS
19508	49876	A	19623	2309	2560	RNREARFYMTTPNFTETKR/WF HERVCALEREREREVTKISRLE RDNHRLVGDISQLKKELDQYL QAISDLEDCNGKRLQILEA

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19509	49877	A	19624	4994	7008	QWQQKPKLTNDNLKFIWNQKR DRIAKTILSQKNKAGGITLPDFK LYYKATVTKTAWYQNRHI DQWNRTEPSETIPHIYNHLNFD KPDKNKKWGKDSL FNKWCWE NWLAICRKLKLD PFLTPYTKIN SRWIKHLNVRPKTIKILEENLGN TIQDIGMGKDFMTKTPKAIATK P\N*QMGSNILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNMPCSWVGRINI VKMAILPKVIYRFNAIPKLPMA FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPNFELYY KATVTKTAWYQNRIDQW NRTEPSEITPHIYNLYLFDKPGK NKQWGKDSL FNKWCWENWLA ICRKLQLD PFLTPYTKINSRWIK DLNVRPKTIKTLEEDLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSFDKGLISRIY NELQQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKKHMKKYS SSLAIREMQIKTTMRYHLTPVR MATIKNSGNNRQ

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19510	49878	A	19625	1	764	GSSEKRKFKTGNQKLSMEVEK NQQMRSLSLYQQRVEGSKCAV RRKGGSPKPKAFLAAAEKFLN VPVMRSASHEQLVLTGDPNKT LPGSKSRLSGTDSPRACSTFPIW ATKIVTEMQVQLFAACRVQLIK HPRPSAARTAMEVLESGEQGV LQWDRKLSELSEPGDGEALMY HTACQGHEEQVWEEELQLGL RSGILLNHWKRLVGGAGILRS AQLHSPYHHWQMISLVSPSPAV MAVMENDDICMVLCVKVMDE PNHILDAISEHQIPSLEDQWFSE CALWTSKAYENLVERHILGPHC RPTELETLGISEDIDHNPYLD PGVAGLGSRNVKRGWLSEM KKEGDIFMKIQG*AICPTSGPAE GLPPPTPVPHVPDRPCGT*GP/PP SPGSDSSPACGPTAARPAPRSP APPWRCGPRWAEDVLLTGLCK QQIAEPAFRLQFWWPI

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19511	49879	A	19626	1	1430	MNGTAEGQHPVWHSTFNGEPQ SLSSSVRVKNQGP RDQ AELGFQ GNGSTVPAAQARTIARARGSGS GGGDALQGGGAGAGPGATKR TARLLARGLRRAALRPDGRGV LGAGAGSSQRRGGGRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKSVWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSCYCNLT DNGLGHAFV QEIGSLRALNLSLCKQITDSSLG RIAQYLGKLEVL ELGGCSNITN TGLLLI AWGLQRLKSLNLRSCR HLSDVGIGHLAGMTRSA AEGLP GPGA AHATGLPEAHR SFSKAHL PRADGPEAPQPQLLWGNLGRW PPAPVAHGQPAHAQPCAPCDNI SDTGIMHLAMGSLRLSGLDVSF CDKVG DQSLAYIAQGLDGLKS LSLCS/RRGLRRAALRPDGRGV LGAGAGSSQRRGGGRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKSVWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSCYCNLT DNGLGHAF/R AGDRLPARSQPEPLQADH*QQP GPHSPVPQGP/ARCWSWEVAAT SPTLAFCS SPGVCSASRALTSAA AATFRMWDRAPGRHDAQRGG GLPGPGA AHATGLPEAHR SFS
19512	49880	A	19627	293	1520	TTMDGSHSAALKLQQLPPTSSS SAVSEASFSYKENLIGALLAIFG HLVVSIALNLQKYCHIRLAGSK DPRAYFKTKTWLGLFLMLLG ELGVFASYAFAPLSLIVPLSAVS VIASAIIGIIFIKEKWKPKDFLRR YVLSFVGCGLAVRGV TYLLVTF APNSHEKMTGENVTRHLVSWP FLLYMLVEIILFCLLLYFYKEKN ANNIVVILL L VALLGSMTVVTV KAVAGMLVLSIQGNLQLDYPIF YVMFVCMVATAVYQA AFLSQ ASQMYDSSLIASVGYILSTTIAIT AGAIFYLDFIGEDVLHICMFAL GCLIAFLGVFLITRNRKKPIPFEP YISMDAMPGMQNMHDKGMTV QPELKASFSYGALENNDNISEIY APATLPVMQEEHGSRSASGVVPY RVLEHTKKE

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19513	49881	A	19628	751	2034	VSSSPTSLGCMRQKEYRIPKKL TNMPFLGSQPSLLALRSCHPTG RTCSA/SQVALFCLAAHRVVSQIG ALLAIFGHLVVSIALNLQVSFHI RLAGSKDPRAYFKTKTWLGL FLMLLGELGVFASYAFAPLSLI VPLSAVSVIGKTIIGHIFIKEKWK PKDFLSKFVLSFVGCGLAVVGT YLLVTFAPNSHEKMTGENVTR HLVSWILFCLLLYFYKEKNAN NIVVILLLVALLGKLTVVTVKA VAGMLVLSIQGNLQLDYPIFYV MFVCMVATAVYQAA*VSQAS QMYDSSLIASVG YILSTTIAITA GKGFYLDFIGEDVLHICMFALG *VLAFLGVFLITRNRKKPIPFEP YISMDAMPGKVNMDKGMTV QPELKASFSYGALENNDNISEIY APATLPVMQEEHGSRASGVVPY
19514	49882	A	19629	19	933	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYWPQHL\RL DNFVPNDRPTWAYTGLGLFSV TGGLRSWTTWAVVQGRAPGL PIGDFGRATVPCCWVLQWCGFI HLVIEGLVPFSNYERPCFGDQSL LYSQLWKEYGQGETARYILGV TNFTV\CMETITSFA\WGEPFSL WVVIV\FLLQHPLARFIL\QLVVS VG\QIYG\DVLYFL*RATPTDFQ HGKPGPTPLLLPGFSFVFHEMP LWLVAPGSPCLCLDA/V*KHPQ LMPQSNAWNAGPQPKPSKK
19515	49883	C	19630	113	257	
19516	49884	A	19631	143	330	HHGPVPFPRGLIS*HSLHPCPT PGGKNVFFFCEYFLKLAGIETT NCSADKRGKKVCCLIPR
19517	49885	A	19632	3	432	
19518	49886	C	19633	112	192	
19519	49887	A	19634	1	4410	MARPLALPLTGMSAPGSSLTTIP HTPSHPRSPSTPDTVSHPRSPSTP DTVSHPRSRYPDTVPPPTLPVY TRHRVPPTLPVYTRHRPHTAPG IHQTMCPHTAPGLHQTPCPTHA AGLHQTPSHPRSPSTPDTVSHPR SRSTPDTVPPPTLPVYTRHRVPPT LTVYTRHRVPPTLPVYTRHCPT HAPGLHQTMCPTPRSRSLPDTV PPTLPVYTRHRVPPTLPVYTRD RVPPTLPVYTRHRPHTAPRLHQ TPSHPRSR

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19520	49888	A	19635	1	444	
19521	49889	A	19636	3	1017	SSRPVRPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLL\SKYD PQKE\AELRTW\IEGLTGLSIGPD FQKG\LKDG\TIL\CTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNP\VDLFEAN DLF\ESGNMT\QVQVSLLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCVIGL QMG\TNK\CASQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NK\CASQVG\MTA\PGTRRHI YEYQAGNPTSCDNFMSLSLQM GYTQGAQTQSGQVFGPGRPDI *TPSTCPQGT\ADGAPSGTG\DI CPDPGEVPEYPPYYQ\EEAGY
19522	49890	A	19637	1	479	MQGLRVSHSTFYTLIPEVTENP HRLDFHWFLSAQLERVASGTIL KKKESPPRPKVLGSARWDLPV/ PPGWCNSTALQ*SPRSDQV*SE RGMEAFFLPMPSESVASVCCRF SPWTSQKPQLSTSRDRKLQGKR *WFSTGVWAS*DHS*ERRCSQC PKTTCW
19523	49891	A	19638	2	501	FVPEERSSETALQRCSLPPGRRRA APDPGLQLRGLSLGGSGSELES RKAKLRAAEGLRRKTTEINQRD TADRCTRHH*SPGESPPKPSAF SL*LSVPRSGKLRFLRSPRREPA AN*SHRLRRHREKKCFHPPFTL NLIASGTSLEGGGVAPTWTSTGR SQRALPSTL
19524	49892	A	19639	1	1122	RFLILINHAVFEYQDIFVASFPSI FFNIHCRGEGEREKGFAGKDRT PPPSTLLCGSGHLPLASRRPPR PRCACCLPGGPLSSSALEAG*Y WRFPKLSG*KRSHTPWVPQPPQ PLPNPSPGKWVWASSEALQ/GT RA*RGIAELTHLLRLPARRGTQ RPA\PGHRAGASPQFRREASSRG PGLRPRPGRTRELGFPRRVWA TAASWPRGTEPCAAA*RRRRRR RRARGRELSRSTWSSDTESTF ALSCDPS*PRHQSVPKGRVGS KGKLANKGFFCPTWQRPPIRVAS VDMELLHFVPKRALPGFTIAISF LSSAPPLCPWYSGSNPWLRNPL KPRLAALFQRSAAPRLHFSGAA SLQVGERRQIRDFRVSAGA

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19525	49893	A	19640	14	618	GNENVKSGRKTSLSPFVLSDF ASSALLASDSSRWMSLQSASEC \PGRAAGSGPGYG*PVSEVTGG PLSAHTHSSL*TSQRCPPG\PE HHGAGFPF*GPGLKDVSGRGG NGCWGRRKPAHMGGLGPAT PLQFPFRPSPPPPPLGPPQ\PPPPP SPPLGPASSPP/CLPHRPPPPPPP PSRCVTAPCVTAPGPAPTGAAA RRH
19526	49894	B	19641	42	121	
19527	49895	A	19642	1	153	
19528	49896	A	19643	104	355	
19529	49897	A	19644	459	988	DPRTMNLAIISIA\LLLTVLQVSR GQKVTS\LTACLVDQSLRLDCR HENTSS\SPSKYEFSLTRETK\KH \VLFGTGVGVEHTVYRSRTNF\TS KYNMEGPLTYSAFH*ARTRGTL QVLQFHQFGALSPPIFLSRNV\T VVQRTNWWKC\EGISLLAQNTS WLRLRLLS\LSLLQ\ATDFMSL
19530	49898	A	19645	1	950	
19531	49899	B	19646	55	1459	
19532	49900	A	19647	1	165	
19533	49901	A	19648	183	700	PNGNQPPRETPQRIISRGIQRLGT AVASSGGSRLPRASAEPAQG AAARRAAPGPAGRCRAARGAG AGSARLP*APAHAPPEQGRR/ SRTARSRAAPQPPPPSQPSPQL GPRPSQGAPQRRGPSSPGPRAG CRAQ*EALT PRLWRSSRTPSSR GLGPHVRGGIFSPKIPT
19534	49902	B	19649	71	264	
19535	49903	A	19650	3	810	GVSPCWPGWSRTPDFGSNPKCP PIRASPGAELQALSSTVTTPYW GILVTA VFPH*GLRPRQCRQDH PAGRQGPGEVPEILGQSGCT DRTWSKAGGRTQAPGPRSRAG RRVSGQEIRAPGPLGCRHGG/V GAPWTPEAASPLTATEPSCPH/L QAPCGYMPLSVSPRRRYRGPA GDQKVKMLKFKAFCLDYWQF LCLQPLHGAYKRDSDLMTWIW GLLPEVTGAAGTTSPNVHTSGR FFRACVFCPVHTLVKKEPHPGQ QEIMEPSPWSP

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19536	49904	A	19651	258	1378	REILSLDRLPGATPNQALSAEA ACPKGQTSLLCGAMGIQGLAK LIADVAPSAIRENDIKSY\FGRK VAIDASMSIYHFLIAVRQGGDV LQNEEGETTSHLMGMFYRTIR MK\ENGIKPI/YKSGELAKCSEL R\AEAEKQLQQAQAAGAEQVV EKFTKWLVKVTQHNDCCKH LLSLMGIPYLDAPIEAEASCAAL VKAGKVYPVATEDMDCFTFGS PVLMQHLTASSDYCKSIWSIGP KRAVDLIQKHKSIEEIVQRLDPN KYPLPENRLHKEAYQLFLEPEV LGPESVELKWSEPNEEELVKFV CGEKQFSEERIHSGVKRLRTEK GGGEPRGP/DWTQPGRASPTKR PDHQEDQHTRSRSSEGS*GWL
19537	49905	A	19652	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RPGGACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK\T LNNKFASSIDKVQFLEQQNKML ET/ESY\NSLKQQLETLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEEIQKLQSQILDTSVVL MNNSHSLDMDSIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLGEESQL ESGMQNMNIHMKTTSYGAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSESSDVLPK

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19538	49906	A	19653	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RGPACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK\T LNNKFASSIDKVQFLEQQNKML ET/ESYINSLKQQLETLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEEEIQKLQSQILDTSV VLC MNNSHSLDMDSIIEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLLEGESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSESSDVLPK
19539	49907	A	19654	152	207	
19540	49908	B	19655	75	402	
19541	49909	B	19656	1	2319	
19542	49910	B	19657	1	1341	
19543	49911	A	19658	198	1118	LHAPNSLHHHLPRDLL*LLPLPL QHRVSDPGLHSALRPMEEHRA QS*QPSAPEDAVQA*WGHGGH SPGPDRA GCHHCRGDQERVST HHVLPVCHHPDDAYGGCGAG WNPDL/PGQMRSHWMSPKIRPA NWTRTSWWALPQAPGLSPGAQ SWPSFVPRTTPTTPGTTCTPSW *SWRSTSR TSSSLNPFTESLKNS LRTSKPFGWSQSAMATPCPLLP PASRVELWPETW\PLGQGHATS SQWKCVPERKL*QGGEAGGEQ LGREPKPSPSSFLT GQRQEKSP EEYCSLLVPLQYFGSRGTHADL LHG

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19544	49912	A	19659	1	2707	MPGPHPASASCPRLFTPRRRAF CPLRICAPLAAAAFCPPRFLPHT RRR AFLLLCRRGFLPPPCLGGG LAAAFFPHPLPFLRPHRRGFLP HRRRGFLLPRLGFLPAAAFYPP PPRVFARRGFVPPSPRLFARRA FCHTPPAAAFSPSAAAF CPTA DTA FCTLAALAF CRRGFLPPRC RGFLPLRHRRSFLPHRRRGFLPT AAFCHRGFLLATAFYPPRLFAP RCHGFLPPCRSDFFAAAAFCPR RRGFLPLSPPLFAPAAVAFCPRH RGFLLPRLFAPVTA AFCHRDFL PPPPRIFVPAATALRAGAADSA ASSTGVLARAALRGPCGLHRV ALPVEAMGEKKEGGGGGDAA ATEGGTGAAASRALQCGQLQ KLIVIFIGSLCGLCTKCAVSN DL TQQEIQTPEPAKPAK PASQTRQ PSQPSHPASQASQTSQPAKQPA SQASQPAKPAKPPSQPSQPSHR ASQASQATQPERPASQPASEPS QPSLPASQASQDRQPAKPAKPD SHPRQPSQP/YQPSQPASQASQA SQPAKPSRQPSQPRQPSQLASQ ASQSTQPLKPAKSPVQQSQPSQ PASPDSQASQASQATQPAKPAK PPSQAAQPAKPAKPPSQPACQP PSQRAKPAKPARQPSQPSQSSPP ASQPSQACQPSQPGSQASQASQ AAKPGMPAKPARQPSQPSQPAS QARHASQAIQPAKPAG*PSQTS

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19545	49913	A	19660	1223	2286	RQCFKATEQPPAIHHPPSSQPSRQ PSSQPPPIYSPICGRKSGIQPKFQ LNG*MVNG*MDE\SRRHEWP CNYQVRPKAGEKQPGAEANRE TRPEGGTP/RGERGRQGPATRR QKSTPEAGPSDLEKQIARQEAP AGTDEIERQQARPH*AP*KIPVE WVNGEWLNGRMPGDPHEWQC NYQPAIQPAIQPANQLSIHNLW TQFRHSTKIPVEWVNGEWLNG RMPGKHHEWQCNYQPAIQPAI QPANQLSIHNLWTQFRHSTKIP VEWVNGEWLNGRMPEDHHEW QCNYQPAIQPAIQPASQLSIHN MWTQFRHSGQIPVEWVNGSRL HGRQQGIFMHGNATSSHSPSIQ PAIQPAIQPANQLSIHNLWTQFR HSTKIPVEWVNGEWLNGRMQR NIMNGNATISHSPSIQPAIQPAIQ PVNHLSIHNLWTQFRHSTKIPV EWVNGEWLNGRMPGKNHEW QCNYQPAIQPAIQPANQLSIHNL WTQFRHSTKIPVEWVNGEWLN GRMPGDHHEWQCNYQIAPML QSNRTAASHSPSIQPAIQAAIQS ATHLSIPNLWTQVRHSTKIPVE WVNGEWLNGRMPGRDMNGH ATIRYGPKPEKNNRAPRQTEKQ GQKGAHQRRREGKARAGNEETE KYSRSRAIRPRKTDASRSSRGH RRNRKAASAATLGPIEDTNQNK LHVRDTGLEVK AISIQGPGTLM
19546	49914	A	19661	39	599	GASPNQGGQNRPHARQRAPQ/G /PPGEPERRAPLPSGHGEPICRHR PPFPQPP/AGTQKPLLQGGPGG *PAENAPTAALGSPAPPRGCQA APPPRSGAGRPDLPTLAGPRPAP A\PPPSAAPPPPSGAPSR/PAAG RQRLSGVSSGPSLGWW*VGRG RGLPAFAQIAGHQVGPRRRRTP AGRKPRSPAGPR
19547	49915	A	19662	39	599	GASPNQGGQNRPHARQRAPQ/G /PPGEPERRAPLPSGHGEPICRHR PPFPQPP/AGTQKPLLQGGPGG *PAENAPTAALGSPAPPRGCQA APPPRSGAGRPDLPTLAGPRPAP A\PPPSAAPPPPSGAPSR/PAAG RQRLSGVSSGPSLGWW*VGRG RGLPAFAQIAGHQVGPRRRRTP AGRKPRSPAGPR

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19548	49916	A	19663	1	379	YFPHTAIRYPPHLNRQDPLKDL VSLACDPASQQPGPLNGSGQLK MPSHCLSAQMLAPPPGLPRLA LPPATKAATTSEGGATSPTSP/S PGIWDSKGLLPSPLLHRPRNPR GQHSRPPAHVFGGKLE
19549	49917	A	19664	3	285	
19550	49918	A	19665	2	1556	RLEFPGRFRSAPAPAGPAPPA APGMYSSPLCLTQDEFHPFIEAL LPHVRAFAYTWFNLQARKRKY FKKHEKRMSKDEERAVKDELL GEKPEVKQKWASRLAKLRKD IRPECREDFVLSITGKKAPGCVL SNPDQKGKMRRIDCLRQADKV WRLDLVMVILFKGIPLESTDGE RLVKAACGHPVLCVQPHHIG VAVKELDLYLAYFVRERDAEQ SGSPRTGMGSDQEDSKPITLVT TDFQESFVTSGVFSVTELIQVSR TPVVTGTGPNFSLGELQGHLY DLNPASTGLRRTLPTSTSSGSKR HKSGSMEEDVDTSPGGDYYS PSSPTSSSRNWTEDEGGISSPV KKTEMKSPFNPSPPQDSPRLSS FTQHHRPVIAVHSGIARSPHPSS ALHFPTTSILPQTASTYFPHTAIR YPPHLNPQDPLKDLVSLACDPA SQQPGPSWYLG*QRSSSLAPSPS SQESQGAAQPAPGPRFRWKIRV NKNTPADSQPGQKDKTHRRTH SGGKEKTKAE
19551	49919	A	19666	1	477	
19552	49920	A	19667	1	440	WTQDM/EGGISS/PVKKTEMAK SPFNPSPPQDSPRLSSFTQHHRP VIAVHSGIARSPHPSSALHFPTT SILP\QTASTYFPHTAIR\YPPHL NPQDPLK\DLVS\LACDP\SSQQP GP/SYSPPDTPANR\SFVGLGPR DPAGIYQAQSWYLG

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19553	49921	A	19668	2	1963	CPTGFEHGSPCARRTPTGRVSV TRCRRRAWGSLRVSVCGPRAQ LQAELVQEEQGGGVLCVIVMP LTPGRTPRLPRGRALCNGRGGV WGGGGSPPRGLLPAQAPGDPEV CKFRFLDRCFPPYAGPSDLSLR GRAVGPPSASLALLTSRLSGLQ DEFHPFIEALLPHVRAFAYTWF NLQARKRKYFKKHEKRMSKDE ERAVKDELLGEKPEVKQKQWAS RLAKLRKDIRPECREDFVLSIT GKKAPGCVLSNPDQKGKMRRI D\CFRQADKVWRDLVMVILF KGIPLESTDGERLVKAAQCGHP VL/CALKPQH\GVAVK/ENLDL YLAYFVRERDA*QSGSPRTGM GSDQEDSKPITLDTTDFQESFVT SGVFSVTELIQVSRTPVVTGTGP NFSLGELHAHLAYDLKPASAGL TRTLSSTFSSGNKRYKAGSMEE YVDSTPWGDD*T*PSSPTSSSRN WTEDMEGGISSPVKKTEMDKS PFNSPSPQDSPRLSSFTQHHRPVI AVHSGIARSPHPSSALHFPTTSI LTPDGPSPTFPHTAIRYPHLP QDPLKDLVSLACDPA\SQQP\GP LNGSGQLKMPSHCLSAQMLAP PPPGALPRLALPPATKPAATTSEG GATSPTSPSYSPDTPSPANRSFV GLGPRDPAGIYQAQSWYLG
19554	49922	A	19669	332	551	ESWLGRGHQPPP\PGLFHSPKPS SGTAVLPAPWRPPSPGPGAGDD ASPS*AGPGAGANPGA*QRS ASGEKGS
19555	49923	A	19670	1614	1673	
19556	49924	A	19671	72	227	EEFPMGHTA*WSCEKRATILQI QEW*IQQLAPCAWQSHRHST RAHESSHG
19557	49925	C	19672	1	604	
19558	49926	A	19673	653	889	VYPQTNWKQNTGTRVFIAALF TM\AKGENK*PSMGEW\IKQM WSIHTMERHAAIKRIEAQVYAT M*MKLKSMALLERNQT

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19559	49927	A	19674	75	1619	EVSIQAQTMWTADEIAQLCYEH YGVIRLPKKGKPEPSHEWTLA AVVKIQSPA\DKACDTPDKPVQ VTKEVVSMTGTGTCIGQSK/M* RKNGDIL\NDSHA\EVIA\RRSFQ RYLLHQQLAATLKEDSIFVPG TQKGVWKLRRD\LINVFFSSHT PCGDASIIPMLEFEDQPCCPVFR NWANNSSVEASSNLEAPGNER KCEDPDSPTVKMRLEPGTAA REVTNGAAHHQSFGKQKSGPIS PGIHSCDLTVEGLATVTRIAPGS AKVTDVYRTGAKCVPGEAGDS GKPGAFAHQVGLLRVKPGRG DRTRSMSCSDKMAR\WTVLGC QGALLMHLLEPIYLSAVVIGK CPYSQEQAMQ\RA\LIGRCQKV\S ALPKGFGVQELKILQSDLLFEQ SRSAVQAKRADSPGRLVPCG\A AISWSAVPEQPLDVTANGFPQG TTKKTIGSLQARSQISKVELFRS FQKLLSRIARDK WPHSLRVQKL DTYQEYKEAASSYQEAWSTLR KQVFGSWIRNPPDYHQFK
19560	49928	C	19675	45	140	
19561	49929	A	19676	3	354	AKIKTGYS\REHINLGCDMDFDI VGPSIRGALVLGYEGLAGYQ MNFETAKSRVTQSNFAVGKYT DEFQLHTNVLLLNLERTCFLTG PTPTPPPLSWLPGTTFSLTWAM TGRYTINSQ
19562	49930	A	19677	1	983	AARSAPLPGSAPCLRVAAPAVA ASEPAATSSSEQKMAVPPTYADL GKSARDVFTKGYGFLIKLDLK TKSENGLEFTSSGSANTETTKV TGSLETKYRWTEYGLTFTEKW NTDNTLGT\EITV\EDQL\ARGT* SLTF\DSSFSPTNT\GKKNAKIKT GYKREHINLGCDMDFDIAGPSI RGALVLGYEGLAGYQMNF* DCKIPE*PQSNFWQLANKT\DEF QASR*M*ND\GTEFGGSYQKV NKK\LETA\NLPWT\AGNSNTR FEIAAKYQ\VDP\DACFSGKVNN SSLIGLGYT\QTLKPGIKLTLAL \LDGKN\VNA\GGHKL\GLGLEF QA

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19563	49931	A	19678	551	831	CHPSSHVLCAPASLSDHQWPPP ALCPSSRPQ/PCALPWSGTLSSR PQPCPTHPSGIEA*LCLPLVTQL G*LPL\PA PQHLVPPCPSTCPTM LKLF
19564	49932	A	19679	47	980	VCQYCTARMADFGISAGQFVA VVWDKSSPVEALKGLVDKLQA LTGNEGRVSVENIKQLLQCLVP GSTT\LHSA\EILA\EIARILRPGG CLFLKEPVETAVDNNSKVKTAS KL\CSALTLS\GLVEEKELQREP LTPEEVQSVREHLGHESDNLFF VQITGKKPNFEVGSSMQLKLSI TKKSSPSVKPAVDPA AAKLWT LSANDMEDDSMDLIDSDELLDP EDLKKPD PASLRA\ASCGEGKK RKACKNCTCGLAEELAEKEKSR EQMSSQPKSA\CGNCYRGAMPS GCASCPYLGMPAFKPGEKVLLS DSNLHDA
19565	49933	A	19680	29	1270	FPFWPAVFQVCQYCTARMADF GISAGQFVA VVWDKSSPV\EAL KGL\VDKLQAF/TPGNEGRVSV\ ENIKA AVAILPTKNPSFGHYFV Q/CLVPGKAPLW HSA*DFWAG NPPGFLRPGWMFFFLKEPVETA VR*Q*AKWK TASKLCSALTLS GLV/EKLKELQREPLTPEEVQSV REHLGHESDNLFFVQITGKKPN FEVGSSRQLKLSITKKSSPSVKP AVDPAAAKL\WTL SANDMEDD SMCIFCGCSLTHRWPLEHV VQV E/IMMDQPKRRTRVDT\FFTPRT PKFPSRSPASHFSFSIKQKT/TRP VSLIALNTL\QDLIDSDELLDPE DLKKPDPSLLRAASC GEGKKR KACKNCTCGLAEELAEKEKSRE QMSSQPKSACGNCYLGDAFRC ASCPYLGMPAFKPG\EKVLLSD
19566	49934	A	19681	3	405	QDFGTRALAAVQIKNGGSWWC PPVSLAAGVGPRPQLGRPYVRV APHGQV\GLSFAMWKTLTFFR GASPGVGSQAMLK CVA*SPHH WRARRDPEFIA YPHLR\IRTKP\ FPWG\DGNHTQ QYITPH\VNPLS NLATED

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19567	49935	A	19682	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLKLHDERVLVAF GQRDGI RVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFYSLEMP
19568	49936	A	19683	1	2034	r
19569	49937	A	19684	202	453	RRLWRGSCPRCGGKARDGCMG VRGR/YSEG/RERV*FGPPRGS TWPLCGRWRRPARPSAPLRWS AMCPNTSDAAGACAAAVRCG
19570	49938	A	19685	269	326	
19571	49939	B	19686	98	562	
19572	49940	A	19687	1	2223	
19573	49941	A	19688	374	1107	IPVSERQGS DWRFFSVYVVNKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVL\AINGM\DVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRL\TSNE\KLMLGLP CFHSLFAIG\SQACLPGTREASR HLKILGRQDTFK\LH\CYQTLT\G IKFVVL\ADPR\QAG\DSLRLKI YE\IY\SDFALKNPF\YSLEMP IR CELF DQNLKLALEVAEKAGTF
19574	49942	A	19689	119	288	ALHLNSSDVHQKLLPVQSLKKS *GRHRNNTCNQRVHA/SSTSRE FFTCLNKDNDILKP
19575	49943	A	19690	92	317	KSVGPNFPLPSGNMNE DN*M H*HPFSSVTQAFRLRVLQSI\QR PL*TFNPGSSSLFSSISGQSNFPL GVAVLRP
19576	49944	A	19691	27	389	NFKTLKNN*IYK*MCSQEIKILS *KLIRFWYIEIHAFPPWAHGVVF CVAQEFCLPTVVLLPVPRLLIM KDMVRRQLQELRHTEQVQRAYA LNCGEGATVSYEIQIRVLREFGL ADAAAELLQN

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19577	49945	A	19692	313	2255	KTPQVQQPFPRQTGAAGAGAP SGRSGERAAGRAGPSGGSGGG QDSAHAAGEAYRVRGILLRKTQ CLKDYFLTYTSSKVVPVKVPC RQVLTIDKCSLPRSSHRNARTV SNDPFPRKSCSRERCTHCMRPPE GRRPPNGNMNSWKWPSGDESK WRRGEPGAVPEPEPLTGEERAA AAAVGGGWPGVLAPVRTAVL VAAAAEATAAVPAAAAAAGG ASGHCNHPVMQGRNLSHRFLL PLHHSPYQFGTSSYSQQGYGCE SKLYSLDHGHEKPQDKKKRTS GLATLKKKFIKRRKSNRSADHA KQMRELLSGWDVVDVNLALVE EYEGTSALKELSLQASLARPEA RTLQKDMADLYEYKYCTDVDL IFQETCFPVHRAILAARCPFFK/I TAFFLTRVWGRDNNGHQYSW Y*YAHVFCFVTLPLYRRVWEW EDSRFQNV DILVQLSEGIWEHQI PLM*DMRGTLI/DMCYDVL SFSSDSELVEAFGGNQNCLEDE LKAHKAVISARSPFRNLLQRRI RTGEEITDRTLRTPTRIILDESIIP KKYATVILHCMYTDVVDLSVL HCSPSVGSLSEVQALVAGKPN MTRAEEAMELYHIALFLEFNM LAQGSCWECIPPNDNEANQEQRS EGSRKWAPTREGSKGRSHASA
19578	49946	B	19693	4	3923	

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19579	49947	A	19694	1	2154	MEYYAAMKTKEIMSFALTWIE LEAIVLCELTHVLSELMQKQKT KYHMLSLGSPVPTFALWNFDV AQDFHHFIENARSSQCRGRPRM TGAGAGAPSGRSGERAAGRAG PSGGSGGGQDSAHAGEAYRVR GILLRKTQCLKDYFLTYYTSS KVVPVKVPCRQVLTIDKCSLPR SSHRNARTVSNDFPRKCSRER CTHCMRPPEGRRPPNGNMNSW KWPSGDESKWRRGEPGAVPEP EPLTGEERAAAAAVGGGWPGV LAPVRTAVLVAAAAEATAAVP AAAAAAGGASGHCNHPVMQG RNLSHRFLPLHHSPYQFGTSS YSQQGYGCESKLYSLDHGHEK PQDKKKRTSGLATLKKKFIKRR KSNRSADHAKQMRELLSGWD VRDVNALVEEYEGTSALKELSL QASLARPEARTLQKDMADLYE YKYCTDVDLIFQETCFPVHRAI LAARCPFFK/ITAFFLTRVWGRD NNGHQYSWY*YAHVFCFVTLP LYRRVWKEDSRFQNVLDILVQL SEEFGTPNSLDVDMRGLFDYM CYYDVVLSFSSDSELVEAFGGN QNCLDEELKAHKAVISARSPFF RNLLQRRIRTGEEITDRTLRTPT RIILDESIIPKKYATVILHCMYTD VVDLSVLHCSPSVGSLSEVQAL VAGKPNMTRAEEAMELYHIAL FLEFNMLAQGSCWECIPPNDIA
19580	49948	A	19695	1	163	
19581	49949	A	19696	1	207	
19582	49950	A	19697	1	579	PTRPGQAGSSSAMAAQRLAKR VL\SKLQSPSRARG/PCAGSPGG LQK/RGHARVTVKYDRPGSLQR RLDVEKWDGPLEGLYRR\QEA D\MPMRSNIDELLE\LESEEVERS RKIQGV/LRDS*KSCGKPVEDFI QELLAKLQGLHRQ\PLGRQSPSP HDGSLSPQL\DRARTASPLTLA LFPGPPERRPALLCVLSCI
19583	49951	A	19698	2	151	PPSPPLPPPLPPAPSLPLSLPSF DLPQPPVLDLTLGV/LF*LCRKKI SVS
19584	49952	A	19699	2	310	

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19585	49953	A	19700	1	688	LTWMTERVDFTALLPLEPPLPP GTLPPQSPPTPPDLEAMASLLKK ELEQMEDFFLDAPLLPPSPPPPL PPPLPPAPSLPLSLPSFDLPQPP VLDTLDLLAIYCRNEAGQEV G\MPPLPPQQA PSFLLPP\QPSR WGPLTHIPGQPTRGGPAKQKEE RPRNKSAALKVTPSGKRARG*S PWRAKSQGLEGT EFASLKERA\ ESVEREIQ\YVKDLLIEVYKARS QRTRSC
19586	49954	A	19701	3	902	AAMATPARPGEAEDAAERPLQ DEPAAAAAGPGKGRFLVRICFQ GDEGACPTRDFVVGALILRSIG MDPSDIYAVIQIPGSRFDVSFR SAEKLALFLRVYEEKREQEDC WETFGGAGGEASPA*RRSSSS GTRRWRTWRTL*LGSSATATCW PC\GESDRQVLDLD/LGSTNARS SCARGRAGSGTCQGPSSWGPR G/CYSWYKGQPKTCFKCGSRTH MSGSCTQDRCFRCGEEGHLSPY CRKGIVCNLCGKRGHAFACQP KAVHNSVAAQLTGVAGHLNTR LPARVNTQASLSLLKCPKLF
19587	49955	A	19702	1359	1981	QSPFNDTLPGPVPSA*LHSLPPE HHPKSG*GVAKSPPVYPAGILL VCNNCAAYRKLLAQTPSVRK WALRRQNEPLEVRLQRLERER TAKKSRRDNETPEEREETDEQ RARRLQRDREAMRLKRANETP EKRQARLIREREAKRLKRRLEK MD\MMLRAQFGQDPSAMAAL AAEMNFFQLPV\NGVELDSQLL GKMAFEVEQNSSSLH
19588	49956	A	19703	1	1875	

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19589	49957	A	19704	1	673	MSAKDGTCTLQDCMYKDVQK DWPGYSEGQQLLKRVLVRAH NTQRQRQNERSDTRPCQRAAP RRFSHGTRRGTLPLASPDRAA PRTGHCRTQRRLDRTGGGFPPL TGAWAMLADWIHEGTPSRGRS DNDEPSAGSVGGRLRQHGPGR APKLTTTKVKALASPVLGQKIA ALCLGLTAQGLNIMDNPGSLAI HVHPDSVLTRKTNPCTHIWGFT QREPLVANMSAKDGTCTLQD CMYKDVQKDWPGYSEGQQLL LKRVLVRAHNTQRQRQNERSD TRPCQRAAPRRFSHGTRRGTL LASPDRAAPRTGHCRTQRRLD RTGGGFPPLTGAWAMLADWIH EGTPSRGRSDNDEPSAGSVGGL R/HAWPRTKSPKANNH*SESTG QPGAGPKNCSPVLGAYSPGPQH HGQPLPGHTCP/SRTQC*PGRP TPAPTSVSLRGNNPLWWPT
19590	49958	A	19705	1088	2273	SPCLLTGGHLPADTSYRRAPAG IWQVPLWDEASQRKE*YQHQQ KKMSTQKPHPKDHNSSPAREQ/ SSMENKFHELTEVGFRKITSLE KNINDLMELKNTARELREAYTS IKSRIDQAKESISEIEDQLNEIKC EDKVREKRMKSNKQNFQEIWD YVKRPNLRLTGVPESDRENGTK LENTLQEIIQENFPNLRQANIQ IQEIQRQAQRQSSSRATPIHIVR FAKFEIKEKMLRAAREKDISM QKINKDIQDFNTVLDQVDLIHV YRTVHPKSSEYTFFSAPHHTYC KTGHIIGSKTLLSKCKRMEITN TLSDYSAIKLELRIKLTQNHTT TWKVNTLLVNEY

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19591	49959	A	19706	318	873	AYELTPEPSPLPVFPVSADGSTT HPLADK RKASPVPEQHEEHLPA RPVTQRCLTYFPFNITTASEFGP ATGFRARRSGRGSTVCCNPGCY PRARPEPEPRGTPPSVSAPRAAQ EAPARQRVAGPVLADTVSPAP RGKRDISPLFGNAHSASPKPSLD LWAPPP*AAGRGPQQA*DVTE DTQQQWSAMAVGGTAKWM AALGRFLVTYVEVEGVKLQTF TVTTLTQSFKYLSKYLQQQPL LSSRTIYPTFYLLSLRLNRAFK LNAAEAKPMSSPQNLVFLCFL SLQMAAPPRLQTKGKQAQCQS STKSTFQGRSLRGVSPTLSPTS QQPRNLDQQLASEQGEVGEAP LCAVIQGVIPVLGRSRSREEHPP VSALPGLHRKRQRDKEAGPVL ADTVPPFRPHAGKGTFLRCLETL TRRAPNPRWTFGLPLRKLQGA VAHSRPEIRTHSVNRT
19592	49960	A	19707	1	690	DQDMTSSDIPVRLEGSLWLP*IF IGTFKAFDKHMNLILCDCDEF KIK*GVDCGGRRLLEDGNLSG WAKQ*SLVSMTVEGPPPKDVS QSRKP/CWRRGGPTVSQALC*IL YPSWGSHAPGSCRTCWASPWG WRAIPTGEELGKGYHLLVAKIK DKGEGP*FSNPVPTWPWGSSPT YGRSTPSR*GAHKETSAN**K MP\SWINDEI*PPMGMPPPGMRP PPPGMRGKCLQW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19593	49961	A	19708	1	1348	MVFWARPRTLILCAALGLGAL YTATPAPTVAKRGGQTAQALS SEGASPKPWVLRHGIEPCKQSY WEVRTEQSPGVSERKAAAPVR GLEIKLPSPWDKAPEGGGGCGH SFSRLKCSFMPVLKRAVDLPAQ RSSPANGQTACSSGSLAPVLPD WEIPPSKGRQTPYATGELRLAS DGCPSGTKLPEEGTDSNLCCSA SSAESNNININININKKDAHGKT PSKGPQHQRSLDKSMKTRKN HHKNAENSKNLNASSPPKDHN SSTAKEQNWTENEFDELTEVGF RRRVIANSSKLKEHVLTQCKEA ENFEKILEELLTRITSLEKNINDL MELKNTAQEHREAYTSINSQID QAEERISEIEDKLNEIKREDKIR GKRIKRNKK\SLQEIWDYVKRA NL*LIAVVPLNKITSPRTSETLST STNMSRSTLSCLLSSFSPASCT ATSAALF
19594	49962	A	19709	718	1138	GGRAAEGSQPPVAEPRCSRGAR ALPLPDTSWRQPS/APQAAP*D VELPASPSAPFAVLLSKPRLSQN KPKSPFSVASP*HGDKRPQPSRH LI*IPHLSSRAPVHS/PLGWPSNR K/HKHLRPDTAHAPAEGPPLNY VRKQQKQS
19595	49963	A	19710	5	760	RAAACGGAAPGRKRCAPGRKR CGPRRKRS LGPPTLGQRPRQPS QQLRKPRRRRGSPGSLPKSSPLP SSTGKTGWSTRGRSVRPPVTT RCCPPGHPCSRRAPSC TARAPLP PT*PPTTAPCRASPPAPRPPRRPR PPPGTRSPTSRGRCRWTRSGAG TSRCSWRAGPGTAPAAAGARS RPGAPGVSAAVPCAAACSWMT SAPEVRAASSPGTPSRGSGGRS HPPCSRGLPTTGPAATTAPEAPG CWSCRRRS
19596	49964	B	19711	180	300	
19597	49965	A	19712	249	700	RQDPVSGGQSCPASCPSLWAA ARVWLGG\ PAPRAR*CPVCSSC PGGAPEDTPEAGGCGSGCRC CLRTQEPPAPLQPPHPPMAQTP REEVGRRGWTPGCPGTDPCW GLRLCPLWDPHRSRGPTRPWAQ VQRDTTETKAQRGLVRCQRC
19598	49966	C	19713	273	485	

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19599	49967	A	19714	35	779	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGGSLHTKGAL PLDVTTFY/KDYGDKLNMESE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAIQRWLKGQG VYLGMPGCLPVYDALAGEFIR ASGVEARQALLKQGQDNLSSV KETQKKWAEQYLKIMGKILDQ GEDFPASEMTRIARLIEKNKRSC KKAVCDFPGFGGREGRVNLL AVSPLWNIRG
19600	49968	A	19715	2	253	
19601	49969	A	19716	494	1443	LA VPRPAYGPRSPGSLLRIPVPG LHLLNLNVWSRGSAALHTKG ALPLDVTTFYKVIPKSKFVLVK FDTQYPYGEKQDEFKRFAENSA SS\DDLL\VAEVGISDYGDKLN \ELS\EKYKLDKESYPVFYLF RDGDF\EEPSSHYTGGS*RLGAIQ RWLKGKG VYLG DGLELVCT V*LTPLAGEFIRASGVEARQAP LEAGA QDNLSKCERRLRKKW\ AEQYLKIMGKILD\QGEDFP\AS EMTTESLGLIEKN\KMSDGKKE EL\QKSLN\LTALPRRKGA EKR GAVNKA VCD FPRVWWEYGRG ELTL LAVSPLWNIRG
19602	49970	A	19717	286	332	HHHHHPHYHHHHHPHYHHHH HPQYHH\HHPHYDHRHRQGD HHGQLQYDDDHQPQCHQHDH LRCEHQHYIQ*WLINNLRASRY KPLLNIMLVFAAEMIVLVALGL MVVVVLELTVVVALTMTVVVI VRMMGGDIGDDGGGGSGDDG GGGSGDDGGGV MWQFFDSMS KNDSIIPTTTTTIPTTTTTITIRA EQFTILT WKP VVSSQKNTSSFR
19603	49971	C	19718	1	546	
19604	49972	A	19719	1	90	
19605	49973	B	19720	217	951	
19606	49974	B	19721	67	1708	
19607	49975	B	19722	218	3267	

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19608	49976	A	19723	1	634	LGRLSFPRPEQDPDGHRAHPSSP PRRRPHARGRRGPRRHH/YHD TGANRAPEVRPPCPES/SPVGVA AFEPNGLRGQQSPRSPGAPKG L*PTPPSASSSPKPREPSALGRPC CRCEESRFLEHRNSNPRVKDSR QARGRHAEFHGRTGVFERRRS RDHLPHTFPASVRWEKLSWCA RKNGLSGLRLCHGSQHFSGYSN RKVGTESLNQVWE
19609	49977	A	19724	3	1090	
19610	49978	A	19725	1	609	
19611	49979	A	19726	23	636	FSYLPPGPSHGTWGLWELQFK MRFGVCRHLMEDSMDMDVSP LR/PQNYLFSCELKADKDDHFK VDNDENEHQLSLRTPTVSLGVF EITPPVLLWLKCGSGPVHISGQ HLVAVEEDAEESEDEEEDVKLL RISGKTKTFMATNGKEYKHYKI SSEKSLDNKYKTRTPGFQAFGF EDLHPWPLGSQAFYLSLRVTPP VFLVLRLLDFD
19612	49980	A	19727	1	830	MEDSMDMDMSPLRPQNYLFGC ELKADKDYHFKVDNDENEHQL SLRTVSLGAGAKDELHIVEAEA MNYEGSPIKVTLATLKMSVQPT VSLGGFEITPPVVLRLKCGSGPV HISGQHLVAVEEDAEESEDEE DVNRVLFMKP/KRQGPQAYVR GFGVQLEIGSH*DPEQQF*RDSA QPSLATPSTPHLQALLCLSGQV LRLPLWGQRL*GLQGILLPPQHP EEHGVHVSPGQELHHQQGDPE PLPVLPTAEVL*SGHVQGVCEK RPKQEEEGGAQARVL
19613	49981	A	19728	1	684	
19614	49982	A	19729	3	535	DSVLRGCSLEQRSFISVRLLSYL SACRHPMEDSMDMDMSPLRPQ NYLFGCELKADKDYHFKVDND ENEHQLSLRTVSLGAGAKDEL HIVEAEAMNYEGSPIKVTLATL KMSVQPTVSLGGFEITPPVVLRL KCGSGPVHISGQHLVVYRRK HQELQAMQMDCRALSTS*ASS APRPS
19615	49983	B	19730	1	2268	
19616	49984	A	19731	198	472	AHDIGCPEVSPLVLEVARDEGP AHRPRFSH*SSHCSHWGTSQRA APPPCHPCIQTTW/PGA VTGLG G*PKTRSGPGKDRSSGAASSFP GGRV

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19617	49985	A	19732	92	2049	LTALPPAVSPGGHSSSSSRTIS GIT*ELQR/LLQAVVPGPWQED VADAEECAGRCGPLMDCRAFH YNVSSHGCQLLPWTQHSPHTR LRHSGRCDLFQEKGEWGYMPT LRNGLEENFCRNPDGDPGGPW CHTTDPAVRFQSCGIKSCRVA CVWCNGEYRGA VDRTESGRE CQRWDLQHPHQHPFEPGKFLD QGLDDNYCRNPDGSERPWCYT TDPQIEREFCDLPRCGSEAQPRQ EATSVSCFRGKGEGYRGTTANTT TAGVPCQRWDAQIPHQHRFTPE KYACKDLRENFCRNPDGSEAP WCFTLRPGMRVGFCYQIRRCT DDVRPQDCYHGAGEQYRGTVS KTRKGVQCQR/WSLE/TG*DYP ATTSLPLPRFTFTSEPHAQLEE NFC/RDPDGDSHGPWCYTMDP RTPFDYCALRRCDQVQFEKCG KRVDRLDQRCSKLRVAGGHPG NSPWTVSLRNWQGQHFCGGSL VKEQWILTARQCFSSCHMPLTG YEVWLGTLFQNPQHGEPLQR VPVAKMLCGPSGSQLVLLKLE RYVDNLGGWTKCEIAGRGETK GTGNDTVLNVALLNVISNQEC NIKHRGHVRESEMCTEGLLAPV GACEGDYGGPLACFTHNCWVL KGIRIPNRVCARSRWPAVFTRV

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19618	49986	A	19733	2	2296	HSAGQRSPSNDFFQVLRGTELQH LLHAVVPGPWQEDVADAECA GRGCPLLLSRAFHYNVSSHGCQ LLPWTQHSPHSRLWHSGRCDLF QEKGEWGYMPTLRNGLEENFC RNPDGDPGGPWCHTTDPAVRF QSCGIKSCRVAACVWCNGEEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPQIEREFC DLPRCGSEAQPRQEATSVSCFR GKGEYRGRTANTTTAGVPCQR WDAQIPHQRFTPEKYAC/KVR WAGGRALGRAAAGETGGG*SR A*GWRLAG*G*VERLLRDLREN FCWNLDGSEAPWCFTLRPGTR VGFCYQIRRCTDDVRPQDCYH GAGEQYRG\TV\SKTRKGVQCQ RWSAETPHKLQ*VPGAPGP ALTLGRHALMSGTRAWKWLR LSLPRFRSRLGSRLTSEPHAQ LEENFC/RDPDGDSHGPWCYTM DPRTPFDYCALRRCADDQPPSIL DPPPDQVQFEKCGKRVDRLDQ RRSKLRVAGGHPGNSPWTVSL RNR*GTTACLPQRGAEVVSSVV MPLGAGNLSLPPEVLARRWQV *HLSQESVPCPNSPLL*\QGQHF CGGSLVKEQWILTARQCFSSICE PPLCLGTQSHPTFPFPQAS*QVS LGATD*ESQMT*QSFSPSHMPL TGYEVWLGTLFQNPQHGEPL

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19619	49987	A	19734	727	3012	PAPTHAHSAGQRSPLNDFQVLR GTELQHLLHAVVPGPWQEDVA DAEECAGRCGPLMDCRAFHYN VSSHGCQLLPWTQHSPHTRLRR SGRCDLFQKKDYVRTCIMNNG VGYRGTMATTVGGLPCQAWS HKFPNDHKYTPTLRNGLEENFC RNPDGDPPGGPWCYTTDPAVRF QSCGIKSCREAACVWCNGEEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPDIQIEREFC DLPRCGSEAQPRQEATTVSCFR GKGEGYRGTTANTTTAGVPCQR WDAQIPHQHRFTPEKYACKDL RENFCRNPDGSEAPWCFTLRPG MRAAFCYQIRRCTDDVRPQDC YHGAGEQYRGTVSKTRKGVQC QRWSAETPHKPQFTFTSEPHAQ LEENFCRNPDGDSHGPPWCYTM DPRTPFDYCALRRCADDPSPIL DPPADQVQFEKCGKRVDRLDQR CSKLRVAGGHPGNSPWTVSLR NWQQQHFCGGSLVKEQWILT AR\QCFSS\CHMPLATGY*GMVG ATFFQNPQHGEPSL\QRVQ*AK MLCGPSGSQL\VLLKLSVTL N\HRVWALIILP\PEWYVPPGT KCEIAGWGET\KGTG\NDTV\LN VALLNVISM\QECNIKHRGRVRE SEM\CTEG\LLAPVGACESDYG GPLACFT\HNCWV\LEGIIIPNR
19620	49988	A	19735	66	234	WCSA WHSWLPHSPSGPAASYP PAACRSAPQWPDP*R*CPRTHR RRSPWRAPWHCP
19621	49989	A	19736	3	500	GRGGGGVRRCARPAPGRPPAA ARRRGDQRGGRLGR\HVPKTF CCGICGRGFRRET\LRHERIH TGEKPHQCPVCGKRFRESFHLS KHHVVHTRERPYKCELCGKVF GYPQSLTRHRQVHRLQLPCAL AGAAGLPSTQGTGACPGAS GTSAGPTDGLSYACSD

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19622	49990	A	19737	899	2348	GRRRGGGGRCWRGCQSGPERF SCATCGQSFKHSW/DLVTHKYV HLMLLLPPSCEAVAPRGWRRSC SCPECCRV/ELSSAA/RSATAR CFRRRSPSHAQAPAGPQVPQDW RSPRARIRLPVGPVGMPAFPTSA SGKAWPSLRVSPHAFWKYHT SPPAMQPSGPLWASVPACAP*K NIPSPTIWQRLAFSGLGLPICWV ENHGPATSSQWLVS GPRSPHLL S/RAEHPFSRPLPRWVATAERQ RRPSGKRTNPPASPAPPPGA/G PEVSVPPAGALPGEALGPARDL WPCSSWT*AGLPALG/DTGGGE APAP/AAAAEPESED TLYQCDCG/ TFFASAAALASHLEAHSGPATY GCGHCGALYAALAEHRRV SHGEGGGEEAATAAREREPAS GEPPSGSGRGKKIFGCSECEKLF RSPRDLERHVLVHTGEKPFPC ECGKFFRHECYLKRHLLHGTE RPFPCICGKG FITLSNLSRHLK LHRGMD
19623	49991	A	19738	2	358	
19624	49992	A	19739	635	2441	LKAIKRHPFFVTIDWNVSCMPQ SPPPFKPAVGRPEDTFHFDPEFT ARTPTGVCHSGSLYNAHHLFR GFSFVASSLIQEPSQDLHKVPV HPIVQVTVFACSGFTDGYEIKE DIGVGSYSVCKRCVHKATDTE YAVKVRQAC*VSSLVFPAGTG APGIGEYGSGLVLSILCAQDSP HNLLPQRKVEKPSLSILVGESRS HVDKGQEV DILEMGMEFFFFIE FLVSPLATG*CFPMARSPCMGC SLSVCTAL*GQPLQGNTPTFKY QQVTWPQAKPPTPTAVLSPETA NVTSPQEQTRCLLKDRWLYPV VRNSSTRGPSEEIEILLRYGQHP NIITLKDVSGPRATASLVMELM RGGELLDRILRQRYFSEREASD VLCTITKTMDYLHSQGVGAMP GA AFNILYRDESGSPESIRV CDF GFAKQLRAGNLLMTPCYTAN FVAPEVSIPRLQTQACDIWSLGI LLYTMLAG*AVTSNRCHDTPEE ILARIGSGKYALSGGNWDSISD AAKVSTCPSVALDPHQRLTAM QVLKHPWVVNREYLSPNQLSR QDVHLVKVPAGAVRTEWWE WDLNRT PQAPRLEPVLSSNLAQ

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19625	49993	A	19740	144	1143	REAGRGCAGVGGRPRRRRRK GAASRARLPFSLSIMDPSLLRER ELFKKRALSTPVVEKRSASSEVS SSSS\SKKKKTKVE\HGGSSGSK QNSDHSNGSFNLKAL\SGSSGY KFGVLAK\IVNYMKDTGIQRGD THPLTLDE\LDQTHLDIGLQQ KQWLMTE\ALVNNPKIEVIDGK YAFKPKYNVRDKKALLML\LD QHDQRGLGGILLEDIEEALPNS QK\AVKAL\GDQIPIC*SGPVRR KILF\FNDKSCQFSVG*RIFRKL WEECQLVDSHGTEEK\EEYLE ADRVFSSHARESG\PK\KVG PYS RRKGKSPAFTRRKPTFLRTSLT NHLAWNC
19626	49994	A	19741	677	1590	AHPHSPRRTLERQARISGAGRR SSPNAANRGSAAPPSSRLASFCT AGSA\GRPA*SSPCSGPWTAVSA PRSPGPRGGGRPPSPGRRRPCCS VFSGGASPSSARVSSPSGSCSAS PPAAPAAWSLRGCGCWPG/VW EVHVNTGGDSV\AAPAAWGSR AACGPNLGCGSHPRAGRRAH RCGHPWSPRPAPRPSCCGRSPR PGPPGASGCRPAPRPPTPASRS GRPCSWRRARAAGWPRGWG SSAGGCRRGSGRREWCPGTA RGSPAAGVSRWTAPRCRHRS DASASGTPARFPAGRKGRTL WQ

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19627	49995	A	19742	754	2179	SKMSRLEAKKPSLCKSEPLTTE RVRTTSLVLRKIVTSCYGPSGR LKQLHNGFGGYVCTTSQSSALL SHLLVTHPILKILTASIQNHVSSF SDCGLFTAILCCNLIENVQRLGL TPTTVIRLNKHLSSLCISYKSE TCGCRIPVDFSSQILLCLVRSIL TSKPACMLTRKETEHSALILR AFLLTIPENAEGHIILGKSLIVPL KGQRVIDSTVLPGLIEMSEVQL MRLLPIKKSTALKVALFCTTSL GDTs*\PGEgTVVVSyGVsLEN AVLDQLLNLGRQLSDHVDLV CQKVIHPSLKQFLNMHP\IIAIDR IGSDSD/VEPLDLKWTGTQPIGS LGSICPNsYGSVKDVCTAKFGS KHFFHLIPNEATICSLLLCNRND TAWDELKLTCTALHVLQTL KEPWALLGGGCTETHLAAYIR HKTHNDPESILKDDECTQTELQ LIAEAFCSALESVVGsLEHDGG
19628	49996	A	19743	1	652	LMPKPGRDTTKKENFRPISLMN INAKILNKILANQIQHQHIKKLIN HDQVGFIPGMQGWFNHKSINV IHHIKRTNDKNHMIISIDAGKAF NKIQQCfMLKTLNKLNIHGvYL KIIRAIYD/KPPANIILNGEKLEA FPLKTGIRQG/CPLLRNIV/LEV ARAIQKEKEIKGIQSGNEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKISVQ
19629	49997	A	19744	1	834	MGDFNTPLSTLDRSTRQKVNK DIQELNSALYQVDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEIITNCLSDHSA IKLELTIKKLTQNRSTTWKLNN LLLNDYWKYKQPSENKHLNAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIRSEIEAITNSLPT/ KKSPGPDGFTAefYQ\MLEVLA RAIRQEKEIKGIQLVKEEVKLSL FADDMIVYLENPIVSAQNLLKLI GNFSKVSGYKI/NVQKSQAFly TNNRQTESQIM
19630	49998	B	19745	1	1521	
19631	49999	B	19746	1	1461	

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19632	50000	A	19747	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLP KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPRDRTTKKENFRPISLMNI NAKILNKMLANQIQHIKKLIH HDQVGFIQGMQGWFNIRKSNV IQHINRTKDKNHMI'SIDAEKAF DKIQQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLD PFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRKIQ/GGIWCD RIL*R*TTCRVAKIQSL*RRI/W KRLQRTLIPVLDAV*PPMF*AS
19633	50001	A	19748	1	1818	

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19634	50002	A	19749	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENG KLENTLQDIIQENFPNLAQVN VQIQEIQRTTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDAIKNDKEDITTNPTEIQT IREYYKHLYPNKLENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIIS/NSIPTKKSPGPDGSTA EFYQMLEVLAIRAIQKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYQNRDIDQWN RTEPSEITPHVYNYLIF

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19635	50003	A	19750	1	1719	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTKGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQKLEKQEQ THSKAGRRQEITKIRAEKKEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTDPTETIQTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVESLNRPIGTSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL HINRAKDKNHMIISIDAEKAFD KIQQPFMLKTLNKLVLVLARA IRQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNLLKLLS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKHLFKENYKPLLK EIKEDTNKWKNI PCSWV\GRINI VKMAILPKVIYRFNAVPIKLPM TFFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLP

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19636	50004	A	19751	2	2133	WRRYQANGK*KNK/QKKAGV VILVSDKTDKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLINIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTEIITDCLSD HSAIKLELRKIKLTQNSSTTWK LNNLLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKRKQERSKID TLTSQLKE/LEKQEQTHSKASRR KSRNRG*IPGHIHPPKTKPGRI* VPE*TNNRV*N*GNN**LTNQK KFRTRRIHSQILPEHSAGSSGQG NQAGERNKGYSIRKRGSIQVPV CR*HDCIFRKPHHLSPKSP*AVK QLQOSLRIONQRAKITSSPIHQ* QTNREPNHE*TFIHNCFKENKIP RNPTYKGCEGPIQGELQTTAAQQ NKRGHKQMEEHSMMLDRKNQ YHENGHSAQGNL*IQCHPHQAT NDFLHRIGKNYFKVHMEPKKSP HCQVNPKEQSWRHHAT*LQ TILQGYSNQNSMVLVPKQTYRP MEKNRGLRNNTTHLRPSSL*QT *QKQEMGKGFPI**MVLGKLAS HM*KAETGSLPYTLYKN*FKM D*RLKC*T*NHKNLRRKPRQYH SGHRHEQGLYV*NTKSNGNKS QN*QMGSN*TKELLHSCRNYH
19637	50005	A	19752	1	1314	

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19638	50006	A	19753	1	1998	MVKGSIQQEELTILHIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQAALIDIYRTFH PKSTEYTTFFSAPHHTYSKIDHIV GSKALLNKCKRTEIITNYLSDHS AIKLELRINKLNTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKA\PL ARLIKKKREKNQID/TIKNDKGD ITTDPTETIQTIREYYKHL YANK LENLEEMDTFLDTYTLPRLNQE EVESLNRPI TGSEIVAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASII LIPKPGRDTTKKENFRPISLMNI DAKILNKILANRIQQHIKKLIHH DQVGFI PGMQGWFNIRKSINVI QHINRAKDKNHMIISIDAEKAF DKIQPFMLKTLNKL VLEVLR AIRQEKDIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS KFSKVSGYKIHVLKSQAFLYTN NRQTESQIMREL PFTIASKRIKY LGIQLTRDV KDLFKENYKPLL N EIKEDTNK WKNIPCSWIGRINIM RRSSAPSGCHLCPPSLYLHSPN VELKQASFSVAGFQWKLGITAP TQPRGVGDDFVTSTSPPSLDMF PRLKGAENSPHRSGRD
19639	50007	A	19754	1	3288	
19640	50008	A	19755	1	1293	
19641	50009	A	19756	264	490	VYLLIVLAVLYTN NRQTESQIM SELPFTIASKRIKY LGIQL\TRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
19642	50010	A	19757	1	1845	
19643	50011	A	19758	1	3144	MGDFNTPLSTLDRSSRQKV NK DTQELNSTLHHADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHV V GSKALLSKCKRTEIITNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQE QTHSKASRRQ EITKIRAE LKEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK
19644	50012	B	19759	1	1743	

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19645	50013	A	19760	1	1500	MGKKQSRKTENSKNQSASPPPE ECSSSPAMEQSWMENDFHELRL EEGFRSNFSELKEDVRTHSKEA KNLEKRLDEWLTGITSVEKSLN DLMELKTMARELCDKCTSFSS KFHQLEERVSVTEDQMNMKS WFEKINKIDRLLARLIKKRE KNQIEAIKNDKGDITTDPTIEIQT TIREYYKHLTYTNKLENLEEMDT FTGTYTLPRLNQEEIESLNKPIT GSEIEAIINSLPTKKSPGPDGFTA EFYQRYKEELL\FNIRKLINLIQL INRTQDP*PPL/VLSRIGRRVHQ YLENPIVSAQNLLKLKSNFSKV SGYKINVQKSQAFLYIKKRQTE SQIMSELPFTIASKRIKYLGIQLI RDVKDLFKENYKPLLNEIKEGT NKWKNIPCSWIGRINIVKMAILP KVIYRFNAIPIKLPMTEFFTELEKI TLKFIWNQERACIAKTILSKKN KAGGIMLPDFKLYYKAVTIKT AWDWYQNRYLQWNRTEPSEI TPHIYNHLIF
19646	50014	A	19761	1	3192	
19647	50015	B	19762	180	190	
19648	50016	A	19763	1	3212	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ

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19649	50017	A	19764	1	2607	MTNHCFKRQFQKHEMLLKEDC EPGDSSFILGEQHWENMLCEPK QHPPQQGEGRAAGQAQNPLNT DVSPGAGAKESEEKIYQHLNYT YFKQKCMSCSGFTFSSYAMHW VHQAPGKGLEWVSAIGAGGGT YYADSVKGRFTISRDNANKSLY LQMNSLRAEDMAVYYCARDTI DAYGDEKPSTIVTRIRVLRKLR DTCHMGEADRTFLSPIAQHPPV CHVETHLGMQVANSSEDELV WSKWDVDVKFILCCAKEYHREQ LQESALDLKSLHCPSASPALFL ATPSQPVLTGPGSASSQGGAE MGAHFLVQLVQSGAETRESFD PALPEMETQRTDEQCRAVHPGP QKERHGNMSPLLMKGSSSPVP SGPGEEP SHREPVSFICGRCILLT LLLGDCWGEAWTQGDVLQ PSDRASFLAMGVNTTVQQVGD LSGYFPNSVGKACKREFHTLT PLAHTSSTHETFPGAQCEVQL VESGGGLVQPGGSLRLSCPDSG FTFSNHYMSWVRQAPGKGLEW ISYISGDSGYTNYADSVKGRFTI SRDNANNSPYLQMNSLRAEDT AVYYCVKHTARGKLEKQEQT SKASRRQEITKIRAEKQETQK TLQKINESRSWFFEKIYKIDRPL ARLIKKKREKNQIDAIKNGKGD ITTDPTIEQTTLREYYKHLN KLENLEGMDKFLDAYTLPRLN
19650	50018	A	19765	1	1251	
19651	50019	A	19766	1099	4113	
19652	50020	A	19767	1	2628	
19653	50021	B	19768	1	2970	
19654	50022	B	19769	1	4142	
19655	50023	A	19770	1	4091	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVVRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE

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19656	50024	A	19771	156	450	LQVEIYKTVKMHCiWHKQMVSYFFYQKKNELSNFEEVFLKTAGSMFFSTVGCHPTRCGEFKNNPDLYLKELLNLAENNKGVVAIGECGLDFDRLQ
19657	50025	A	19772	173	1009	LHGGNLQDSKDALHLAQTNGMFFSTVGIHPTRCG*/YFEKNNPDLYLKGVAKIFA/EKTLKGKLWQLGEC\GLDFD\RLQFCPKDTQLKYFEKQFELSEQTKLPMF\LHCRNSHGWNFLDIMKRNRDRCVGGVVHSFDGTKEAASLIDLDLYIGFNG/CASPENLEANLGRFWKSI\PSEKLMIEA\DA\PWCGVKSTHA\GSKYIRTAFPS\KKKWESGHCLKDRNEPCHIIQILEIMSAVRDEDPLELANTLYNNTIKVFFSWNIIGICPLSIMYVKFHSKTS
19658	50026	A	19773	16	1558	QEHLQRASPRLLQLLPPLPPPPPPAFGGSLSLGSRMSRQV\VRSSKFRHVFGQPAKADQ\CYEDVRVSQTT\WDSGFWC/SVNP*VLWALICEASGGGAFLVLPLGKIWTLWDKNAPTGC GSHS/APVLDIAWCPHNDNVIA\SGSED\CTVMVWEIPDGGLMLPLREPVV\TLEGHTKRVG\IVAWHTTAQNVLLSAGCDNVIMVWDVGP\GAAMLDTGPRGA/HPDANYRGDWEP\DGGLICTSCRDKRVRIIEPRKGTVVAEKDRPHEGTRPVRAV\FVSEGKILLTGFSRMSERQVALWDTKHL EESPV/SLRKLHTRNGVPV\AFFGP\DTNIVYLRGKG\SGPIRVFE\ITSE\APFLHYL\SMFS\SKESQRG\MGYM\PKRGRK\VNK\CEIAGFYKLHDGR/CVSPMPKPVPRKSDLFQEDLGPTPPRGPDPA\LTAAEEWLGGRDVG\PLFISLKDGYVPPKSREL\RVNRGLDP\GRRR\AAP EASGTPSSDAVSRLEEEMRKLEQATVQELQKRLDRLEETVQAKL
19659	50027	A	19774	229	475	

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19660	50028	A	19775	225	965	EWAWRSQRLRSEHSRADPTRSSC RSCGAKMSGREENPASKPTPVQ DVQGDGRWMSLHHRFVADSK\ DKSGSKKNPPPEVVFIGDSL VQLMHQCEIWRELFSPHLA\N FGIGGDGTQHVLWRLengele HIRP\KIVVVWVG/TPNNHGHTA EQGLLPRGQHPNPLREKNRQV NELGTGGTWLGHPRAHFLDAD PGFVHSDGTISHHDMYDYLHLS RLGYTPVCRAHLSLLRLLAQD QGQGAPLLEPAP
19661	50029	B	19776	691	1077	
19662	50030	A	19777	481	1308	PSVAFL*PSLHRYGHTGTAGPG WPCAAGS*AA/SSSRRLPSVLQ ASSNSSHRRCNSTPSGSAGQRR VRRAP*MASTTPGGTESGPKCA RNAFRMRSTSACFRGQ*QRPVP SSSSSRSSSRACA\AGETASGDP RAQRQLRS*DEESSPSLDFRQA /PWPTAPCVKVSYSRRMFSGM SPWRSSDNKRNSSFLRKTGSGN FSADLDTPPMPEVCLLPSLGYP LVPPVAEVHMPVPAPILPSAGIR RKIQKAASAKQLPLFQMDDSF QHRVQGDTKK
19663	50031	C	19778	41	318	
19664	50032	A	19779	970	1193	INNHIRDSCWTCHCSC/QPPPPPP LLPQPPP*LSAPRVIERKE*DRL/ CPGEQTSSPTSPRTQSAAAAT QLSLPPP
19665	50033	A	19780	1	494	MDGRVMAAGGRQAPGQKKAG TSEAPPSSQEWPEAWYGCLQQ KLRAVYLVQSQPCTGPVLAPG AACPAAASTPGCAQW/CGPR ACSPTQSSQLCAWFAFSSRCPD FCPNPPRPL*DPPSWPTDPADRC SPELTIRDSCWTCHCSCRRRHR RPCCRSRRPDSPRHG
19666	50034	C	19781	120	392	
19667	50035	A	19782	174	375	

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19668	50036	A	19783	33	1154	QFALCAGWWLCGRGGGRTPAT MSGFSTEERAVPFSLEYRVFLK NEKGQYISPFHDIPIYADKDVFH M\VVVEVPRWSNAKMEIATKDP LNPIKQDVKKGKRLRYVA\NLFP\ YKGYIW\NYG\AFPQTW\EDPG\ HNDKTLLGCCGLTMDP\IDVC* NWEKGVCARGEIIG\VKVLG\IL AM\DGGGTDWKVIAINV\DDP GCQPINNDI\NDVKRLK\PGYL* KLPVDWFR\RYKVPDGGKPENEF AFNAEFKDK\DFA\IDIHKSTPWT LGKALVT*ENRMGKGISCMT NFVLRAPFKVCILDAAQSPLWD ALPHPCGICPCHSTQQTVDKG VPITQKNLMRFPLEYQADIA YIR VPSWMVLEVKVVAFSKAFK FV EPHPNLK
19669	50037	A	19784	1	612	VTQEDDIIEEHKPRTPRSPPLL APSPACQAFGEHSPGHPAIST GAGPRPSASFSPHLSGLHREPP LNWSVCPGLVWSPKPAIDETH PFVQQFPHQATLEWGVFHRDV GRRWGRRLGNLQIGSEVARRR RVGGGGLQCRRLGVGASPGAD W**SG*EEACGGRWAA/GADG WGLGRPRELIGCRGWRRSLAA APGPQRPGFVSVSTPRCRPRSG METQTPALRVQQDDL FQS
19670	50038	A	19785	1	951	MEEGISSQIGRRENECQKKCQ TLIKPSDLVRTHSYHENSMTGETI LVIQLPPPGTAFDMWELQFKLI TQTFSHHNQLAQKTRREKRAR QEA\ERREKAERAARLAKEAKS ETSGPQIKELT\DEEAERLQLEID QKKDAENHEA\QLKNG\SLDSP GKQDTEEDEEEDEKDKGKLP NLGNEDLPNYRWTQTLSELD LAVPFCVNFRLLKGKDMVVDIQ RRHLRVGLKGQPAINDGELYNE VKVEESSWLIEDGKVVT VHLE KRGPADAHSRALSVLQASRL GVHCVPGTVPNAEIQVVD FVIY FWQSVIPQASPISE

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19671	50039	A	19786	87	1191	SAELRDVDRSAARLGGEQEER FDGMLLAMAQ\QHEGGVQELV NTFFSFLRRKTDFFIGGEGTAE KLITQTF\SHHNQL\AQKT\RREK ESPRRRAE\RREKAERAARLAK EAKSETSGPQIKELTDEKA\ERL QLEIDQKKDAENHEAQLKNGS LDSPGKQDTEDEEEDEKDKG KLKPNLGNRADLAQ*RLNPDPC RELDLAVPF\CVNFRLKGKDMV VDIQRGTTPR\VGLKGQPSDSLM GELYNEVKVEES\SWLIEDG\KV VTVHLEK\INKMEWWSRLVS\S DPEINHPRKINPENSKA\SDL\DS *DFASMVEKDDGMTQRTESPM GLPNFQTNRKQEI\K\KFM\DQ HP\EMGFFPKAKFPTNPCFFPP
19672	50040	A	19787	3	403	
19673	50041	A	19788	281	1952	DPVPGCRRLVAMAPTITQTAQ REDGHRPNSHRTLPERSGVVCR VKYCNSLPDIPDPKFITYPFDQ NRFVQYKATSLEKQHKHDLT EPDLGVITIDLINPDYRIDPNVL LDPADKLLLEEEIQAPTSSKRSQ QHA\KVVPW\MRKTEYISTEFN RYCIFHEK\PEVKKWGSVKQQF TEEEIYKDRDSQITAIEKTFEDA QKSVIEGLGWGEARISQHYSKP RVTPVEVMPVFPDFKMWINPC AQVIFSDPAPKDTSGAAALEM MS\QA\MIRGMMDEEGN\QFVA YFLPVEETLKKRKRQDEEEMD YAPDDVYDYKIAREYNWNVK NKASKGYEENYFFIFREGDGVY YNELETR\VRLSKRRAKA\GVQ SGTNALLVVKHRDMNEKELEA QETRKAQLENHEPEEEEEEME TEEKEAGGSDEEQEKGSSEKE GSEDEHSGSESEREEDRHEAS DKSGSG\QDDSSDY*ARAARDK EEIFGSDADSEDDADSDDEDGRG QAQGGSDNDSDSGRN\GGGQR TRSHRSASPFPSGSEHSAQENG \SEAAASDSSEADSDSD
19674	50042	A	19789	1	885	
19675	50043	C	19790	164	361	
19676	50044	C	19791	22	156	

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19677	50045	A	19792	1	1344	PGRTTTRSMAEDVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEE EEEEDAVLVAAEAEVAAGWM LNFLCLSLCRAFREGREDFRRT RNSAEAIHGLCSLTACQLRTIYI CQFLTRIAAGKTLD AQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIQAIAVCMENGNFKG AEEVFERIFGDPNS\HMPFKSKL LMIISQKDTFHSFFQHFSYNHM MEKIKSYV\NYVLSEKSSSTFLM KAAAKVVESKRTRTITSQDKPS GNDVEMETEANLGYKKKC*LT NSLR*LNPQRVQYPY*GSHKNL FYLKLQHGTTQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHRARKRQAWLWE EDKNLRSGVRKYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKLKLISDSED
19678	50046	A	19793	1	1444	IPGSTISCLKGQYPSEPFNMAED VSSAAPSRRCADGRDP\DPTEE QMAETERNDEEQFECQELLEC QVQVGAPEEEEEEEEEDAGLV AEAEAVAAGWMLDFLCLSLCR AFRDGRSEDFRRTNSAKAIY GLSMLTACPLRTIYICQFLTRIA AGKTP*MHRFENDE\RITPLGISP *MIWGSIEKEHDKLHEEIQNLIK IQAIAVCMENGNFKEAEEVFER IFGDPNSHMPFKSKLLMIISQKD TFHSFFQHFSYNHMMG\KIKSY VNYVLSEKSSSTFLM\KAAAKVV ESKRTRTITSQDKPSGNDVEME TEANLDRKRSHKNLFLSKLQH GTQQQDLNKKERRVGTTPQSTK/ RRKKEGRRATESRIPVSKSQPV TPENDRARK\RQAWLWGRKDK ILRS\GVREFG\EGN\WS*ILLHY KFNNRTSVMLKARWRTMEG NLKLDLFLQDSEDWIVFVKSFDG KGQFKYFDHCILFETCVIDVI
19679	50047	A	19794	1	1020	
19680	50048	A	19795	411	769	SHLGFPGTWTRLWPSRMSPCPP QQSRNRVIQLSTSEL/APALGN WARLPQVTEQ*FRGLRKGSR MPGSSPPATWTKGCLLA*Q*CL CPQLGWSRVAP*CRLGALFLAC SLLLAAPLRCF

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19681	50049	A	19796	171	325	ETVAVSSAGARASSIMRIMVSS RPSETSLESVFPDSAP/PGL*PPP CLSFGL
19682	50050	A	19797	335	1536	GCSPCPPQ\QS\RNRVIQLSTSEL GEMELTW\Q\EIMSITEACRVLN APSEPSFEAPKPQLPYL\GPPPT TY\CPC\SIHPDSGFPI\PPPYPYEL PAASTSHVPDPYPYSYG\NMAIPV SK\PLSLSGLLSEPLQDPLALLD IGLPAGPPKPQEDPESDGLSLN YSDAESLELEGTEAGRRRSELC RRCYPV\VEYPYSLMPNSLAHSN YTL\PAAE\TPALEPSSGPVRA KPTARGE/AQGSRDERRAL\AM KISFPTDKIVNFPVDDFNELLA RYPLTESQLALVRDIRRGKKNK VAAQNCRRKRL\ETIVHLERKL ERLTNE\RERL\LRA\RGEASR\T LKVMRQQ\QLQELY\REHFPSHLR E*NPGQTAYSP*KK*RACKQAC PNGDPSFPCGPRGT\KMEAHRL
19683	50051	A	19798	1	408	LNLMRWEAVQARGGAFRIPRV DPGPTPIPHNSSSRFDCNSVSTA PARVLVSGICAAGSFVLVAFSHS VGTS LC/GYFLLTSP\EAQDPGG EEEEAESAAQPLIRTEAPESKPG SSSSLSLRERWTVFKGLLWYIV PLV
19684	50052	A	19799	1	759	
19685	50053	A	19800	1	1815	
19686	50054	A	19801	1	942	MGGCAGSRRRFS DSEGEETVPE PRLPLLDHQQGAHWKNAVGF WLLGLCNFSYVVMLSAAHDILS HKRTSGNQSHVDPGPTPIPHNS SSRFDCNSVSTAPARVLVSGICA AGSFVLVAFSHSVGTS LC/GYFL LLTSP\EAQDPGGEEEEAESAAQ PLIRTEAPESKPGSSSSLSLRER WTVFKGLLWYIVPLVVVYFAE YFINQGLVSEGCLFRPFPSALN VCEVNLVKVSQHQGGWVAVV TQGGKHPISCRLNVDGMNIIS NDGSNKLNRSRKARVSYKVQR TINASLNAATSTRAVSSNPVNFV

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19687	50055	A	19802	82	1620	SLSPVADPHPSRGSPLWTLYPD GPSGDLNLMRWIGCAGSRRRFS DSEGVEETVPEPRLPLLDHEGAH WKNAEGFWLLGLCNNFSYVV MLSAHDILSHKRTSG\NQSH\ DPGPNGDSPTTAYSRFDCNSVF\ TGAVLL\ADILPTLVIKLL\APLG L\HLLPYRSGPRVLVSG\ICAGG KFRPGFAFSHSVGTSLCGCWSF ASISSGLG\EVTFLSLTAFYPRA VISWWSSGTGGAGLLGALSYL GLTQAGLSPQQTLLSMLGIPAL LLASYFLLLTSPQAQDPERGEE AK\SQAGQPFIRTEGPE\GKPGSS SSLS\LRERWTVVKGLLWVPLF PWFEVTFPKYFITQGLFELP/LFF WTTSLSHAQQYRWYQMLYQA GVFASRSSLRS\CSIGFTWALAL LQCL\NLVFLADVWFGLPSI YLVFLI\LYEGAPWGSASLREK PF\HNIRPWRPSDEHREVCKWR PPCHL*HTGGFILSGASLALPLH DFLLPSSPDTRDPQDAGHIHLW ARGTGYQ
19688	50056	C	19803	270	542	
19689	50057	A	19804	271	449	CLELRNLFYGACSWEVSISSDS EKPGIFNAPASAVHC**GFARP SSWRVLGAICTFHHSVYAKTA KRKAST*RHFHH
19690	50058	A	19805	21	79	
19691	50059	A	19806	1242	1560	WATRSCSSMMEMPPWCPCGC AGRWRRGASRGPREAAAGH* KPRTSNQGEQPTRRPSPYACA RRAFAGPWASLPSPSPLSAGGL AWGAPCVAHPTRPSPYLLV
19692	50060	B	19807	148	2949	
19693	50061	A	19808	1335	2173	KQAHRPREEKRREEKRKEG\PS VPETLKKKQRNFTLKI KRLRK KFAQQML\RKAR\RKLIYEKAK HYPKE\YRKMYRT*ISNGRGWA RK\AGQLYLVLKNPKFAVVIRN QKVSMGVSP\KLRKVVSFLRP SSKSSNETFVKALKQRPSD*TM P*GLVRGPI*LPWGYPPQS*SPV NEP*SYK\RGY\AKIQ*EAELPLT DNALIASISWVNSAFICM\DDLI HEIYTV\GKRFK\EANNFLWPLQ IVLLPRGG\MKKKTTHFVEGGD AGTQRSDQINRLIRRMN
19694	50062	A	19809	3	186	
19695	50063	A	19810	272	428	

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19696	50064	A	19811	50	2237	RSLKAFICSILSMDKQSRDPPVK MQGSITTPGSIALAQAQAQV PAKAPLAGQVSTMVTTSTTTTV AKTVTVTRPTGVSFKKDVPPSI NTTNIDTLLVATDQTERIVEPPE NIQEKIAFIFNNLSQSNMTQKEE LVNNTLVQSYRQQIGNVVNQ ANLQLFWNMYNSRRDLINRP GTVPNAKTLRCPVMLVVG DNA PAEDGVVECNSKLDPTTTTFLK MADSGGLPQVTQPGKLTEAFK YFLQGMGYMPSASMTLRARSR TASLTSASSVDGSRPQACTHSE SSEGLGQLNLKFEIEVLCKNLA LDINELKPGNLLKDKDRLKNLD EQLSAPKKDVKQPEELPPITTTT TSTTPATNSTCTATVPPQPQYS YHDINVYSLAGLVPHITLNPTA HPQLKQCVRQAIERAVQELVHP VVDRSIKIAMTTCEQIVRKDFA LDSEESRMRIAHHMMRNLT GMAMITC/RE/PLLSISTNLKN SFASALRTASPLQREMDQAA AQI*AQDNCFL/CKVGGVDPK QLAVYEEFARNVPGFLPTNDLS QPTGFLAQPMKQAWATDDVA QIYDKCITELEQHLHAIPPTLAM NPQAQALRSLLEVVLRSRNSRD AIAALGLLQKSMENGLNYMAV AFAMQLVKILLVDERSVAHVT EADLFHTIETLMRINAHSRGNA PEGMDITTRQKVNNKKREGFND
19697	50065	A	19812	1	3777	KNPEFNKMVLNETYRNIKVLLT SDKAAANFSDRSLLKNLGHWL GMITLAKNKPILHTDL DVKSLL LEAYVKGQQELLYVVPFVAKV LESSIRSVFRPPNPWTMAIMN VLAELHQEHLKLNKFEIEVL CKNLALDINELKPGNLLKDKDR LKNLDEQLSAPKKDVKQPEELP PITTTTTSTTPATNTTCTATVPP QPQYSYHDINVYSLAGLAPHIT LNPTIPLFQAHPQLKQCVRQAIE RAVQELVHPVVDR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19698	50066	A	19813	160	1002	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCSWVDQ\KLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNRAIPTARL\IL\EELGQ EWVPVESSWRLNERH\YGALI GLNREQ\MA\LNHGE\EQVRL\W RRSYNVTPAPPIEESHPI\YQEIY NRPGGIK\CDVP\LDQLPRSES\ LKDV\ERFLPYW\NERIAPEV\L RG\KTILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPILL \ELD\ENLRAVGPH\QFLGDQEA QAAIKKVEDQGVKQAKK
19699	50067	A	19814	200	1155	NHYISLFQYSQDTCKLLFRNQ TISQIFLCIFSGVLMVFFLIITTSQ VSFTNFFTGLKIFFLVKFWVSE FLHHQTGTIYIHYLLFISMKSFF LYASPLTFMILSHFQASLSSIFGF CSSLFRQSSFFSNILFF*VYTQSY REFRTYYETIPCQFDITFVIFKM CCILILC\FDLLNRRNGSIIIQKFG IYGLVKIFIF*IFTNIHLLQ*FFQV VFILQFFNIVKKSFLQPAAGSKR* KFFSKVRFFSFL*F*KWEARSSA SKLFLLIY**VYR/IFSLLVFPV V/CPVGWYLLFFFLYLFFLFLN LSKNSFYSQWYWFKR
19700	50068	A	19815	1	168	RPWLHLHGRPGWPAPETPPPQD PEQAPPPGRAGPAGEAEGLSKV /P*APSRPRPTM
19701	50069	A	19816	1	531	PVGQGARQDDSSSSASPSVRAT SQGGHLMSDLFNKLVMRKGI SGKGPAGGEGPGGAFVRVSDSI PPLPPQPQAEEDEDDWES*G AP*HLPPDPDLGRCSMDMDTAR TSCSDLLPWEGVTEPAVCGDQL QGAEGWLEATQLGRGLVCLYF MGRLHPACATVFLRGFQRKR HTNQ
19702	50070	B	19817	61	969	
19703	50071	A	19818	60	436	RGSREYLHTGCPRSGGCRSQCP GPPTQSPKVRPPQRGAPRLRGG DFPPSRLLDTVSFPSA*AAFPP CPVPHLPAPVQGAPREVVDPSG GWATLLESIRRAGGIGKAKLRS MKERKLEKKKQKEQ
19704	50072	B	19819	575	1666	

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19705	50073	A	19820	515	1110	MFHPTCLTCPAFANRPHVHCRP GAPAFAPSAPGTIPELPTFHTEV SPSHSRQTLQDGVTTAPPPPPP PPPPPPAPEVLGQLQPPLPTLQP RPLLGGQGAREGRTAAAA/PSPS/ GPGSSQGSGRPLRWLGHSARV HPPSWGHRQGLAAQHERKRV EKKKQKEQEQVRATSQGGHLM SDLFNKLVMRKGLWEKDPG AW
19706	50074	A	19821	1	191	MQK*ITAWAPAPMKIKIIASPER KYSVWIGGSIWQQLST/FQQMW ISKQEYDESGPSIVHRKCF
19707	50075	C	19822	791	970	
19708	50076	A	19823	13	1260	INPPPLSRRCQLSHSVLPPLRRR VSLPVAMEEEIAALVIDNGSGM CKAGFAGDDAPRAVFPISVGRP RHQGVMMVGMGQKDSYVGDE AQSKRGILTLKYPIEHGIVTNW DDMEK\IWHHTFYNELRVAPEE HPVLLTEAPLNPKANREKMTQ\ IMFETFNTPAMY\VA\IQAVLSL* \ASGRITGIVMDSG\DGVTHTV\ PILRGLPHCSTPFLRLGPGGLARD LTDYLMKILTNERGYSFTTHGPS GKTFRNIKGEACATSPLDFEQE MGTAASSSSLEKSYELPDGQVI TIGNERFRCPEALFQPSFLGMES CGIHETTFNSIMKCDVDIRKDL YANT\ALSGGTTMDPG\IADRM QK\EI\TALAAPAP*KIR\IIPPER K\YSVWIGGSILASLSTFQQMWI SKQEYDESGPS\IVHRKCF
19709	50077	A	19824	93	534	

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19710	50078	A	19825	1	1462	WEVSAQPSPAVPRRAPLRGLSA TRSAAGTMREIVHIQ\AGQCGN QIGAKFWEVISDEH\GIDPTGSY HGSDSLQLERINVYYNEAAGN KYVPRAILVDLEPGS\MDSVRS GPFQIFRPDNFVFGQSGAGNN WAKGHYTEGAELVDSVL\DVV RKESESCDCLQG\FQLTHSLGG RHGVPGWGTLHQQGSGEEYP DRIHETPFSVH\VPSPKVFKTRL LEPLQRHTSRFHHLVENT\VKP YSIDNEALY\YICLPTAES*PTPT YG\ALNPPGCSATMSGVTT\CLR FP/GGQLNADLRKLA\VNMVPP PRLHFFMPGFAPLTSRGSQQYR ALTVPE\LTQQMFDSKKMIA/AP CDPPPTGR\YLTVA\IFRGRMFH GRRWDEADGSNVAGTRNRQVI SWEWVP\NNVKTA\VC\DIPPPG AWKMS\ATFIGNQPRPSRRLFK RIYE\QF\TAMFPAQGPSLHWLH GRRAMDGDGSSPEAREQHERP WCPEYQQYPGTPRPT
19711	50079	A	19826	2	180	
19712	50080	A	19827	28	185	
19713	50081	A	19828	179	307	
19714	50082	A	19829	438	663	
19715	50083	C	19830	99	335	
19716	50084	A	19831	1	320	AYADQL*LRRHKSSSSSSSSSSSS SSSSSSSSPLAP*LGSGDLP*EIN PPSSCSLLREKDPPTTSGPQPTS PRNISPISNPDPTGNRTVQLTWQ PLPQPLELWPKAL
19717	50085	A	19832	578	753	LCTPTPFPLFWKTVRKYSSNNQ KGE*NTVLMEVCPRSPRTN*KD SQ*PFELLTKMTSQGSDISGDLP WEINPLSSCSLLHEKDPPTTSGP QTDQPKKHLTNFKSETKETHFI RGPKTPVLVTDWEGRLPLVFN HSRDASLIHPRFRGVRPRRDAC LGPSPLAASPAFLEEGQVPQPLL SMSLTPSLLFWRRGKKPSTPSSP LAASPAFLEEGQVPQPHISVPRS LISTPQPLITLHPDPFPAFLEDSK EVLKQQPKGRIKHCADGGMSK EPKNQLKGLPVTKAGNIHGIND
19718	50086	A	19833	95	259	SHRPSQ*VLQLIKVAHPELFPVP SGFVVSLTSGMKLQTLTTREW MRILLIFWNG
19719	50087	A	19834	1	939	
19720	50088	A	19835	391	792	

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19721	50089	A	19836	1	1317	
19722	50090	B	19837	1	1665	
19723	50091	A	19838	573	902	YSCLLILIRKITQNSVEVLGRRK FLGGGMEREWVMFL/EGCFKR D*GQRGNQFQIRVTAPNFMCV CVKRPPNRLCVSNKAVYFTWV QVGFGQIFEKPEPIEEICKVCWRP
19724	50092	A	19839	1802	2229	GGAEEAEELGPSSAWRGAAC PCPRKAGLVAKAEGPRQASLR GLTPLKRECIIREASLQ*LNTK/V KAAFPVRDRRWSFGFTDKTCLF CLGSEIGEVLGLVGLRT*GRR WIFLMEQRAGGQGIDLPREVPR SKSGHQISLVSI
19725	50093	A	19840	19	4153	PPDPLPGLPCPPGGPPLPAFGGG WGGARGSWHWSSRACSRRRR LVHAPRAPLLPRAAAEKAKRP AGARQMGLKARRAAGAAGGG GDGGGGGGGAANPAGGDAAA AGDEERKVG LAPGDVEQVTLA LGAGADKDG TLLLEGGGRDEG QRRTPQGIGLLAKTPLSRPVKR NNAKYRRIQT LIYDALERPRGW ALLYHALVFLIVLG\CLILAVL\ TTFKEYETVSGDWLLLLLETFAIF IFGAEFALRIWAAGCCCR
19726	50094	A	19841	355	640	ILDYVFSSSHLFQSKLLGRRGR ASHGTKL*AGPG\GGGEVIKGL* GGGAEEAEELGPSSAWQGAAC SFPRKAGLAAKGEGPRQASLH GLTPLKCG
19727	50095	C	19842	55	189	
19728	50096	B	19843	96	401	
19729	50097	C	19844	558	725	
19730	50098	C	19845	448	540	
19731	50099	C	19846	140	334	
19732	50100	A	19847	362	710	ILGGRKLRLEKSLGCAAQGGG AL/YEEWLELRNGCLCCSVKD NGL*/RAIENLMQKKGKFDYIL LETTGFADPGAVASMFVWDAE LGSDIYLDGIITIVDSKYGLKHL AEEKPDGLIQ
19733	50101	A	19848	181	543	
19734	50102	A	19849	1	594	
19735	50103	B	19850	29	746	
19736	50104	A	19851	45	362	EEQHSM LGSGFKAERLRVNL LVINRLKLE/KKDERARIRVEH IREDYLVEAMEILELYCDLLLA RFGLIQSMKELDSGLAESVSTLI WAAPRLQSEVAELKIVA

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19737	50105	A	19852	344	951	EEQHSM LGSGFKA EHLRVNLR LVINRLELL/EGKKKKKTELAQ KAGKEIADYLAAGKDERARIR VEHIREDYFVEAMEILELYCDL LLARFGLIQSMKELDSGLAESV STLILAASRLQSEVEGFNPNIYSS* IPSNSPIILNL*MAIKGCKNY/RL LHQIVVPGPSQKPLQNFLDLR LPWTTTLWPIFGLEGKIPLWERIK
19738	50106	A	19853	1	1077	
19739	50107	A	19854	1	1140	
19740	50108	A	19855	1	3426	
19741	50109	A	19856	1	942	
19742	50110	A	19857	342	1499	EEQHSM LGSGFKAERLRVNLR LVINRLKLEKKKTELAQKARK EIADYLAAGKDERARIRVEHIIR EDYLVEAMEILELYCDL/LCLA RLG/LYSSY*KELDSGLA\ESVST LIWAAAPRLQSEVA\ELKIVADQ LCAKYSKEYGKLCRTNQIGTV NDRLMHK\LSVGTTPPQILVERY LIEIAKNYNVPYEPDSV\VMAE APPGVETDLIDGGFPDDVKKR\ GPWKKEGSGGFTAPVGGPDGT VPMMPMPMPMPMP SANTPFSYP LPKGPSDFNGLPMGTYQAFPNI HPPQIPATSPIRIESVRWTFNCLI KEYS/IFLAQICLGPGPKARRPF AKFPASRPADNF*QLLFLPELPSV PDTLPTASAGASTFRHLKDIDF DDL SRRFEGAGKRKT
19743	50111	A	19858	2	255	GCISTSRLGSMPTTTLRLLQKIS *RSYSSAPASCLISIVKSASD*RA RAPTRGSYGGPLLRLSSSSSLAS GRCVTSRASLRPRS
19744	50112	A	19859	1	276	
19745	50113	A	19860	3	151	GAVPAVRLGGPLHVHLP HAR*P SNLSALQFYQDGLRWWQTVS *RAASRSPTRPVTIKSVCTPILP GWLSSLVANCIVKSASD
19746	50114	A	19861	1	386	DCVIATDAEVLGAPVKGKRRG RGPKGDKASDPEAGVARGIDF HHVSAVLNFDLPPTPEAYIHRA GR**CDGPGICMVGTLRDLGCA GQSLRVGDASCTVFPCRTARAN NPGIVLTFVLPTEQFHLCKI
19747	50115	B	19862	26	186	

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19748	50116	A	19863	2	1839	ARGQVR AALLSSAMEDSEAL GFEHMG LDPRL LQAVTD LGWS RPTLIQ EKAIPLALEG KDL\LAR ARTGSG KTAAYAIPMLQ LLLHR K\RQVRW*NRQ*EGLVLVPTKE L\ARQAQSLIQQLATYCCSGMS ELANVSAC*KTQSLRELCLMEK PD\VVVGTPSRILSHFAARQPET FVTP\WSFLVVERSLTFFFPGFE EELKKSSSGKAESLAPDFNKA LMSATFNEDVQA\LKELILHNP\ VTLKLQESQLPGARPVTA VSGG L*DLREDKFLLLYALLKLFIDSG ASLWLF CSTL*EREFTGLRLFL WEQFQ/LSPTCVLNGELPLRSR VPHHL/QQFNQGFYGLCHRQL/ NAEVLGAPVQGGASGPRAQRG Q/VPLDPEAGVARGIDFHHCVC\ VLNF*SFPPTPEA\YIHRAGR**C DGP GICMDSTR*QPRA*S*PFVL PTEQFH/CRQD*GASQWREQGA P/SLLPYKFGMEIEGFRYR*GV HPQDAMRSVTKQAIREARL\SLI KEELLHSEK LK\TYFGRQPLGD LQA\LRHG PYLCTPQLVEAPTW GHVPDLPGSSCF SVALGAPFTK KREEACLPSCKAQESKVPRT LRSFKHKGKKFRPDSQALREVV
19749	50117	A	19864	3	378	TTTKFAGRRPKVTVLGQP/KAA PSVTLFPPSSEELQANKATLVCL ISDFYPGAVTVAWKRGSSPVKA GVETTTPSKQSNNKYAASSYLS LTPEQWKSHKSYSCQVTHEGST VEKTVAPTEYLLRVY
19750	50118	A	19865	1	546	MAWTPLLLLLLSHCTGSLSQPV LTQPPSSSASPGESARLTCTLPS DINVGSYNIYWYQQKPGSPRY LLYYSDSDKGQGGSGVPSRFSG SKDASANTGILLISGLQSEDEAD YY/CGCFTVFWSTF*VLVPEHQ QSWLPLWTPGVVSLLV/CLVPS FVPPPLTKVPSSLSPVKESAILA VDIH

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19751	50119	A	19866	2	838	RVRVSTMAWTPLLLLLSHCT GSLSQPVLTQPPSSASPGESAR LTCTLPSDINVGIYNIYWYQQK SGSPPRYLLYYYSDSYKGLGSG \VPSRFSGSKDASANTGILLISGL QSDDEG\DYCATWDSSLTGQ VFGGGD/TKLTRP*GQPKACPP GVTLPNPPS/SRSFQAQQGPQL VMSS*SDFLTPGSPLNSCPW\A DSQPPFKAG\VETTHTPPKQSNN QVRGPAGYLSLTA\EQWEVPTE SYSCQ\VTH*RGAPWEKTVGPY RMFHRFLNPSPPHGMT
19752	50120	A	19867	1338	1854	NSETREHNHRYVPQRETSGGTD GWKSKQPE*L*RRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPPPQLPSSHL SSLHFYSPFVSYSFDLYSSSYH SYLMDEDTVEPKELRSSQKVIG HSFTGFQPTLSANPYDRGDGKII ELLPRKAQTFPVVRT
19753	50121	A	19868	1	500	GSTYSELLSGTACVVTALHLAQ QRRHLLGGLASRHDAPEQLA VGAPVQPRPLPAPAGAQALVG HAHVVEGGP/PGSGGPGEAI ARGPGAAAAGAGPGAPRRRR LQASAGPCSRSEPGRRSAPRA APPAPSAGPHVAFPSRPPAAGS PPRSRPPPPGIPTGGR
19754	50122	A	19869	20	507	TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRPRSSRRRLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSPGPASG*CSVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAGW STSLRAAPRSGGRPPAGGGWR YTRPPSRR

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19755	50123	A	19870	236	1191	GSGRIPGRAGLEGPGPAFQKSR LSPASGSAGPRGASPSAVPPGR/ RPGVPAFPASNPPVAAVPGPW VTCWKGKGLQGEGKAPRAPH GTPQR\SPGSARPTGLSPPA*PSR *RARRPSPETP\PGHGRAGPPPP DGA VQRQGP GCRAPSASRPPGS ARARRRRWPAARPPGCPARPG PRGGRPRRRPSPPAAGRARRRA PRTPAARSR*VCPRGRRSAAPP RGHGTA PCAAAAPPPRGLGRP ADAPEQ\PRCRCARPAPPLPAPA GAQALVGHALLLKAALGHDF TFLWATIHEVIPKMRWGQSQ QRGGPSSHTPDLA
19756	50124	A	19871	24	286	LRGQKVLLLGDRARLSQKKKE RKREEREREGHGRNGR/RRNG QGRGPEGQR*NERTGQERTGH GREGRKEGRKEGRKEGRNERE
19757	50125	A	19872	43	373	PRFTDENLEMCTVIQSVQCYHR SWH/HSSPPEPAPHHQSPAHSP VLCWFRRLGGGEDWAPSSGGR AVWRSHCSCFCCSSSCSCSCSQ SGKRTAAAPWPTTSPAPSRSCC A
19758	50126	A	19873	3387	4083	AGRSALPVDVAVQVQAEGLWPP AVLLHHHHHPHHHHYHHYHHH HHHHHHHP*HHHPHHHHHHHRN HHHHHHHHLHHHHHHHHHHL YHSHYHHH/HHHHDHHHYHH FHDHYHHHHH/HYSHH/HHPH/ HHHH*RHDHY/AHHHHHQHH CHHCHHPHRHGHHYHHHGT VAFGALEDSAVARTGLPLPEGV LCGAPTAASA AVPPPAVPAPN QGRGPQLHPGQQLRPLLHAHA ALQWPTTHL
19759	50127	A	19874	3	411	
19760	50128	A	19875	1	1095	
19761	50129	A	19876	1	471	
19762	50130	A	19877	1	554	FRGRLASPFRPVPMEALGKLKQ FDAYPKTLEDFRVKTCGGATV TIVSGLLMLLLFLSELQYYLTTE /VKGRGLMRGRGLAF*E*DL*G WEWGRRGLGLSLTEVALPQVH PELYVDKSRGDKLKINIDVLF HMPCAYLSIDAMDVAGEQQLD VEHNLFKQRLDKDGIPVSSEAE RHVLSFVVSAD
19763	50131	B	19878	1116	1274	
19764	50132	A	19879	28	389	

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19765	50133	A	19880	75	448	
19766	50134	A	19881	276	830	QEDSCPLHPLSGIPFRRFQPTPE EAGAVVPGEPTHDQGPSSALT RR*ACQGPHLARTTAEPGHAH PWH*RWQRYMGKLGRDLEKV CPVWSSVACSSPGLSWAGKTE AKTSLEGGNSASASASSWAWG RSSLAPVRDILGSREFSGLLEGT FVLSVTLSADFGIGTWVDLGKV TGSSSKEGRL
19767	50135	A	19882	223	1269	APVTKRKEVFAKDSKGSALDA GRDPKRPALPETLCESGWASNT APTAPPQPGWCLCGKDFKSSCQ TPGREKERRLATMHGSCSFLML LLPLLLLLVATTGPVGALTDEE KRLMVELHNLYRAQVSPASD MLHMRWDEELAAFAKAYARQ CVWGHNKERGRGENLFAITD EGMDVPLAMEEWHHEA*/DTT TSAP/HSCSPGQMCGRYTQVVW AKTERIGCGSH\SCEKLQGVEET NIELLCVNYEPPGNVKGKRPYQ EGTPGSQCPSGYHCKNSLCEPI GSPEDAQDLPYLVTEAPSFRAT EASDSMKMGAEGPDKPSVVSG LNSGPGHVWGPLLGLLLLPLV LAGIF
19768	50136	A	19883	2	281	FVPALGSSAVMLSRSRCVSRF SRSLSAFQ/KGVSLCQGPYPNS RKVVINNSVFSVRFFRTTAVCK DDLVTVKTPAFAESVTEGDVR WEKGKI

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19769	50137	A	19884	1	1320	MPAVTILKPNLKQIILGLKAAE VSSLPPSIVLDAKEITTQITRQIL KGNCPLGRHSLPGVSLCQGGPY PNSRKVVINNSVFSVRFFRTTTV CKYDLVTVKTPAFAEPVTEGD VRWEKAVGDTVAEDEVVCEIE TDKTLVQVPSPANGMIEALFVP DGGKVEGGTPLFTLRKTGAAP AKAKPAEAPAAAAPKAEPAAA AVPPRAAPIPT/QMPPVPSQPP SSKPVSAEAQNTCA\MLTIFNEI DVSNIQKMRARHKEAFLKKHN LKLGFMSASVKASAFALQEQP VVNAVIDDITKEVVYRDYIDIS VAVATPQGLVVPVIRNVEAMN YADIEQTITELGEKARKNEFAIE DMDGGTFTISNGGVFGSLF/GTP IINPP\SAILGMHGIFDKPVAIGG KVEVQPMYVALTYDHRLLIDG REAVTFLRKIKAAVEDPRVLLF
19770	50138	A	19885	1	1559	MESEALVVCINHCMAVNYGMI YQRGSSNMNLSLSLKHPEKTGI SPTANHGISDLQEGEACGSLR TPLVGRRLRPAPLPVVVRPYI RCPPALGSSAVMLSRRCVSRA FSRSLSAFQKGNCPLGRRSLPED DLVTVKTPAFAESVTEGDVRW EKAVGDTVAEDEVVCEIETDKT SVQVPSANGVIEALLVPDGGK VEGGTPLFTLRKTGAAPAKAKP AEAPAAAAPKAEPATAAVPPPA APIPTQMPPVPSQPPSGKPVS AVKPTVAPPLAEPGAGKGLRSE HREKMNR\MRQRIAQRLKEAQ NTCAMLTTFNEIDMSNIQEMRA RHKEAFLRKLLKLRLLMSAIV EGSA\FALQE\KPLLMEGIDDTT KEVVYRDYIDISVAVAHPRGLV VPVIRNVEAMNFADIERTITELG EKARKNELAIEDMDGGTFTISN GGVFGSLFGTPIINPPQSAILGM HGIFDRPVAIGGKVEVRPMMY VALTYDHRLLIDGREAVTFLRKI KAAVEDPRVLLLDL
19771	50139	B	19886	239	3045	

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19772	50140	A	19887	3	809	RGRFLPPCHPAALPPCRPAALLP VVAARGAPSPPPPHVLPCVGS LGYNMLGMIKNSLFGSVETWP WKVLSKGDKEEVA YEERACEG G\KFATVEVTDKPV\DEALTGK QLPKV\AKYAGGTNDKG\IGMG MTVPISFA\VFPPN*RWLSCRKKL KVWFDFQTNFQSDPPAPS\DKS VK\EEEREGIHCLIPCQFGGYAK\ EADYV\AQATRLRAALGG\PAT YRGDIYFCTGYDPPMK\PYGRR NE\WLFEDMSDPTEPRTYWEV CLCVSFLRG
19773	50141	C	19888	164	208	
19774	50142	A	19889	1542	1929	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPT\SWGRGKYPSTPS PSPLAASPAFLGGKNPPIAYFHT PTSYLCAPIPYFCAPTSLLFWR ARTTTPTPSLCLKSFL
19775	50143	A	19890	1	208	MPEPQRPGVPPEPPPPGACYAC RKSGHWA\RNARSPGFLLSRVP SPPGPSRTPSFG*LSQWKPTCTQ VK
19776	50144	A	19891	1	1662	
19777	50145	B	19892	1	915	
19778	50146	A	19893	183	569	
19779	50147	C	19894	71	344	
19780	50148	A	19895	147	446	
19781	50149	A	19896	167	373	
19782	50150	A	19897	142	363	
19783	50151	C	19898	52	174	
19784	50152	C	19899	228	260	
19785	50153	A	19900	1	753	
19786	50154	A	19901	1	1077	
19787	50155	A	19902	500	912	LGSGDFPWEINPLSSCSL/LREK DPRTTSGPQTDQPSKHLTNLKS ASTPPPYNPFITSPHTRSGLQFR STSSPPAPAQQFTLKKVAEAKG IVKVNAPFSLSDLSQISVRLGSFI KYEKSSPVHGSFGSNPETLYSP
19788	50156	A	19903	1	861	
19789	50157	B	19904	174	222	
19790	50158	A	19905	1	756	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19791	50159	A	19906	1035	1852	NLVPSLGSGLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPT\SWGRGKYPSTPS PSPLAASPAFLGQRQVPLSWGR GRCPSTPSPSPAASPAFLGQQQ RQVPLSWGRGRCPSTPSPSPA ASPAFLGQQQRQVPLSWGRGR CPSTPSPSPAASPAFLGQQQRQ VPLSWGRGRYPSTPSPSPAASP AFLGQQQRQVPLSWGRGRCP TPSPSPAASPAFLGQRQVPLSW GRYPSTPSPSPAASPTFLGQDL PLSWG
19792	50160	A	19907	1644	1981	LGSGDLPWEINPSSSCSLLREKD PPTTSGPQTDQPKKHLTNFKSA *KRTNTASYK/WHSQSRVPAPR DGLVAAPTESEVAFLPVPPHQQ PPLGNLGPSTVTTSFRCWLLDP RS
19793	50161	A	19908	1011	1154	
19794	50162	A	19909	1043	1168	
19795	50163	A	19910	1328	1470	
19796	50164	B	19911	406	1191	
19797	50165	A	19912	2848	3140	SFYHLSSSHLVRLTVSFRD*PSP TCPAIYS*KGGWSQRHSQGACY TCRKSGHWA\RNARSPGFLLSH VPSVWDPTENRTVQLTWQPIE PLELWPKAL
19798	50166	B	19913	1	941	
19799	50167	A	19914	656	1983	NLVPSLGSGLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSEAKEICFIREPKTPAPVT DWEGLPLVFNHCRDASLIHS RFKGVPRRDACLGPSPLAASPI FLGKGQRLKTDARLPRKPPRP SRMPFSGVKHVNVTIDCLPEGA ATRGTARTSKPTTKSQKTLPT SPGHWTQSTPWASALRSSPWTE TAAPSETEETLNTGRPELPA TATWFSASHTLPALATRRVART QWLTADRQTWASISSVPWAQT ISEKKPGGSLWETRSSPPTTAGT EEAMNTTSLAPAAEIMATPGS PSQASPTSGAFTHGTQTPSPTKA TAPRYPQTGNSILTFGRPFLPFA GDLFAEWPFTAGEEPVLVPRPH QVSKTRSPPSFHLTLKTVTVAL LGNGEECYVYLSVSELREIRTR LYSPDAGLNEEKMLTKLLLI
19800	50168	A	19915	117	432	
19801	50169	C	19916	122	289	

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19802	50170	A	19917	1	516	
19803	50171	B	19918	212	3302	
19804	50172	C	19919	181	444	
19805	50173	A	19920	151	485	SPRGHYQLLLSGRALADRYRRI YTAALNDRDQGGGSAGHPAS/ RSENLENTVIIPDIKLHNSPSAFN IYCNVRHCVLEWQKKEISLAAA SKNSVQSGESDSDEEEESKEPPI
19806	50174	A	19921	1	3465	
19807	50175	A	19922	1	176	
19808	50176	A	19923	114	14211	AAPVAAPGALFMPVPDGSVAA AGLGLGLPAADSPGHYQLLLSG RALADRYRRIYTAALNDRDQG GGSAGHPASRNKKILNKKKLLK RKQKSKSKVKTRSKSENLENTV IIPDIKLHNSPSAFNIYCNVRHC VLEWQKKEISLAAASKNSVQS GESDSDEEEESKEPPIKLPKIEV GLCEVFELIKETRFSLCLRS LQALLNVLQGGQPEVLQSEPPE VLESFLQLLLEITVRSTGMNDST GQSLTALSCACL
19809	50177	A	19924	375	1191	SQGIPELHYTPGPRGRWCGWW PIVEPRMGASQGCCVLGHAAQ QGGGASQAVRGANGVHAGCR GDPHPRSDHYPGGRPWLPAS QDPAVAPGGHGHPSYLARLPC AAEPGTP/PAEPPRPSSLPGAAT APAGT*\PALADAPRRVGGAG QPGRGHV*PKLVPGWQSQDSI* PSL/PSSPARHTLAASATP*APGS GARPAW*C*WAPALAPVIPVD AHSPPGGAGHGPGRH*GPRGSV LGLRLPAGCPGPRQPHRPGQSG PQPSSPPGGALRSASR
19810	50178	A	19925	3	543	SDDQPEKPHFDSRSVIFELDSCN GSGKVCLVYKSGKPALAEDTEI WFLDRALYWHFLTDTFTAYYR LLITHLGLPQWQYAFTSYGISP QAKGITKATCEWGEHIPLGSM AINSISKLTQLTQSSMYSLPNAP TLADLEDDTHEGRKGTEGSQ KCEHQLPPPMHSHVGGGQRESL ARKEK
19811	50179	A	19926	1	392	FLDRALYWHFLTDTFTAYYRL LITHLGLPQWQYAFTSYGISPQ AKITYNIKMNRRKCVHWKLAV EPLQWELRSCVSAGMGTGPKQ KVSSMKPRSCSVCSRQNSMGT TTVSQSFLSYGKNVLFPPVRCC

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19812	50180	A	19927	1	1081	RAMEEEASSPGLGCSKPHLEKL TLGITRILESSPGVTEVTIIEKPP AERHMISSWEQKNNCVMPEDEV KNFYLMTNGFHM TWSVKLDE HIIPLGEALAINKHLKTDFSFTQ SSMLFTFLIAPTLGQTWEDDTH GSQWMIQPEKPHFGLFAVLIF* GWVSV\CGSG\KVCLV\YKSG\K PALAEGHWRFLFPGTELLYWH FLTDTFTAYYR\LLIT\HLGLPQ\ WAILPFTSYGISPQAKQWFSM Y*TYSPYNTNLV/TQKETDSFCG IKLDPSKVF*GGKNKIVIPKKKG PVQPAGG\QKGPFRDPPVPSISSI FKSSSLWGNPTREVSTPPSNSL PAPEWWFPCTDGPRGDLQFCV WTVGLFLVE
19813	50181	A	19928	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNV DHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI
19814	50182	A	19929	3	142	TISSIIRKARKP\QDLLNNYTPRS SPLRSSGRTRMYKGNVVRPGNS S
19815	50183	A	19930	904	1295	WALMNGSESRRFFVSSSQGRSEL VPNS/NYAVDY*PLTAHAVSSG GTSPVLARLLREKLESL\PLHL GQVAKYAGQLRGRVKQQFAT MGERRRFWEKLFVNDR/AGAV AGKQRSESHY*NDRTVNQRTA RPSR
19816	50184	B	19932	1	1050	
19817	50185	A	19933	303	384	

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19818	50186	A	19934	375	1161	EALESAPEG/RR*GSGTKTSLSPSP/PAGSWVCRIPMGRGCRHGAE R/P/PGSQESSPSNGHGKLAGPSP YLGRFKSSS*T*QSPQTPAQGVAS*GLGAAPVLRQLQGPVPP\SHC GKSRPDPC*PSPGSPDPPGERES QQESQ*WPPVGELCTDPTGNPE RGGRHLQ\SHAPSGGGLSGFPS DSFPCSCYYGSTPVARKKRFAK CRGYIYDFVYELLSLKPPSQGV AEMPPPAVGQQG\QAEPRGIPQ SPAGGRVFFQDFYSLCLENLS
19819	50187	B	19935	62	346	
19820	50188	B	19936	1	1629	
19821	50189	A	19937	1	1218	
19822	50190	C	19938	718	1053	
19823	50191	A	19939	54	212	
19824	50192	A	19940	122	451	
19825	50193	A	19941	329	398	FFSYFRPSGCILPL*ELPEARCP
19826	50194	A	19942	92	346	VGSSPSRL*SLRGQVLNKN*S/I QLGCLHIVGNPI*NS*DVPWAG WSED*GRRWISSRSSSKDRGPV S*RSPVPGLQHQMASHM
19827	50195	A	19943	284	374	LKNHKRSEYALPHLN**PSTTK EV*M/DRS/SALSDDITL*KSFWS LILAQKSPPLSTLQPPLLPAREQ TLFDCNSPLPTQIL*NGPTLISLR *LSQDEPGKGLSQGNVIT
19828	50196	A	19944	1	1674	MAPPLSPFADSLFGLSPPAPRDK GDTFYFPTQNSGARHGLGRQP SLGVSSLQGRSLDHSPTFQRCQ TTQGRLPWSFTLSGKSCFSEEG AIPTPSVAESFQSSFSTDPDLSP PPQPAHRQAELSPNSSASTPPP YNPPTTSPPHTRSGLQFSSATSS SPPAQFPLREVAGAEIVNAH VPFSLSDLISQHLGSFSSDPT KYIQEFYRLTSLYNLTWSDLNV ILTSTLSPDERERVFPVSQSHAD NRRLHEP

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19829	50197	A	19945	1746	3501	ESDPSNSTTSM DRTL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCISLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVWVQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLIPLMVGLGLSASTVA LGTGIAGISTSVMTFRSLSNDFS ASITDISQTL SVLQAQVDSLAA VVLQNRRLDGLLTAEKGGLCIF LNECCFYLNQSLVYDNIKKL KDRAQKLANQASNYAEPWAL SNWMSWVLPVSPLIPIFLLLLF GPCIFRLVSQFIQNRIQAITNHSI RQMFLLTSPQYHPLPQDLPSA
19830	50198	A	19946	1392	1676	GFCILHIVLEPWFSAPSAPLSTSL YWL*LYILLNFFQSFLCLW FECPPVAQSNLIV*SLLSARQS HSPSSFFPLLVRNCVPLEEERCS
19831	50199	B	19947	1	1500	
19832	50200	A	19948	107	691	TTMLLIQSLFGGLFTWTRMKFG AVARIGGHPLGDQSPSSCSLLP EKDPPTSGPQIDQPKKHLTDF KSGTPL*LYTHVSRVSDHAGTP ALVLHPYGKSRFSGEGATQRQ YPIPQQALKGLMPAITRLLQHG LLKPINSYPHSPILPVLPDPKY KLVQDLPLSTKLFLCLSTPWCQT HILFYPQYLPLQPIILF
19833	50201	B	19949	1	2628	
19834	50202	B	19950	1	585	
19835	50203	B	19951	178	462	
19836	50204	C	19952	1	825	

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19837	50205	A	19953	644	1795	RPSKSQTMNLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTPD PHDCISLIHLTFTFPQISFFPVSH DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLRLPLCLPPLPLS KPN*LP*LKPINSYPNSPILPVQK PDKSYRLVQDLRLINQIVLPIHP VVPNPYTLSSIPSSSTTHYSMLD LKDAFFTIPLHPSSQPLFAFTWT DPDTHQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLCSPSFESSQQDTLL LLQCLFSKGYRVSPSKAQISSPS VTYLGIIHLHKNTHALPADRWPS CLRAAAAAALILVEALKITNYA QLTYSSHNFNQNLFSSSHLTHIL SAPRLLLLYSLFVESPTITIVPGL DLNAASHIIPDTPDPHDCISLIH LTFTFPQISFFPVSHPDHTWFID GSSTRPNHHSPAKAGYAIVSST SIIETALPPSTTSQQAELVTLT QALTLAKGLRINIYTDISKYAFHI LQHHAIVIWAERGFLTQGSIIIN ASLIKTLTKTLLPKEAGVIHCK GHQKASDPIALGNAYADKVAR QAASSPTSVPHSQFFSFASVTPT YSPTETSTYQSLPTQGWFLDQ GKYLLPASQAHSILSSFHNLFH VGKPLDRLLLEPLISFPSWKSIL KEITSQCSICYSTTPQGLFRPPPF PTHQARGFAPAQDWQIDFTHM
19838	50206	A	19954	52	641	RPSKSQTMNLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTPD PHDCISLIHLTFTFPQISFFPVSH DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLRLPLCLPPLPLS KPN*LP*LKPSLLQKDYASISILI LNMPFIFCSTMQSYGLKEVSSL HKGPPSLMPL
19839	50207	A	19955	3	380	TTPDPHDCISLIHLTFTFPFHISFF RVPHPHYHIWFIDGSSTRPN\ATH QQRQAML*YLPHLRLLLCPP PLPLSKPN*LP*LKPSLLQKDYA SIFILTINMPFISCTTMQEVSSLH KGPLSLIPL

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19840	50208	A	19956	154	485	TFIRTHFLTQPQPCPRHQPSR*L SSSPAG*TG/IFARLLIFSCLLQI LNHM/QHTLAGQSVLVKNLTP QTLQPRWTGPYLVYSTPT/VRP PAGSSPLGSPFQSKAVSISQPA
19841	50209	A	19957	158	416	ISGTCSNLLGEEVLEERLAAAV QAFGSSRVLEMWLGFSQWRQ VIVTQKCIWVLLPLYCTP*R QG*LIPVVGFEQGILIFEVFS
19842	50210	C	19958	1	1755	
19843	50211	A	19959	2	394	
19844	50212	A	19960	710	1093	KEPTQHSFSYTHSLLSLPQLPLF L/CPDFNPASHIIPDTPDPHDCI SLIHLTFTFPFHISFFPVSHPDHT WFTDGSSTRPNATHQQRQDM Q*YLPHELLLTLPLCPPPLPSKP NQLP*LRPSLLQKG
19845	50213	C	19961	1	1287	
19846	50214	A	19962	1	1293	MEEPLGFKQTLVVAQQNPLWT SGGGGHSPSGSGHRGVCITLTP VPEGSSQKETHVSEKLKEKNE SLPGNPENSSRSPRRHASKA RDSDEENDPDEDAVVNAVGC LGKNSGFLAPELQKYQKQIKDG TAGTPAISTTTTVEIRKSSVMTT GDHLLSGKKAQRPAAPHSSCPS TETEEKGKRLLYWVWQVA VNSASQLEAHNSENPSVLSERI RERPGLWHGYRPSRSPHLSLS GSYSLWALRTDTVCD
19847	50215	C	19963	1	846	
19848	50216	B	19964	377	1172	
19849	50217	A	19965	564	1163	FPKSIFFLPDAYTFLFPWLLQL YSLFVESPTITHCSWPRLQSGLP HYSGYHT*PS*LYLSDPPDIHPIS AYFLLSCSSP*SRLIY*WQFHQA *SPHTSKGRLCYSTSH*PAS*NL SFPFHRGNVSSRK*LLSVPSAIL LLLRDYSGLPSLHIKLRDLPPP RTGKSAIYSTCPESGN*NTSWSR *TLICQS
19850	50218	A	19966	1382	1778	PIGTNTECVVLFQPMETGHSSR VNMSGYK*PC/PPLFGVLSWQN CWRVYFCLLFGGPLSVMDE GSPSGC/SNSLGLGADSVTLSTG GVFQPNVRGLNCNGKIVMGRC PLEFVPIPATSPISRKKPERSTAF

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19851	50219	A	19967	239	737	RPSFKTPENSPTLVPTWITLFYA LFFSYPHLPTSLIRPKYFNQIICF PDYSWSTATSHCCPSSQSK/CLL CV/SLTSPQYQPLPQDLPSA*SLP L*VPTPPLIPLEAALRNIAHSLSI PPPKNFRSNTSTLFCFICLINIR RQECQASEPRPGHRIPCDLHVYI QMA
19852	50220	B	19968	1	1321	
19853	50221	A	19969	1	1069	
19854	50222	B	19970	758	6451	
19855	50223	A	19971	53	319	CSGSMPSSSSVSRPTSPFGSPLLS SPATSSSPKTPPTSATSGSSCPTT GL*MWTWSGFTGPVKAATWR WTSATYPRWSWRPRAPLCP
19856	50224	A	19972	1427	2103	RPVHGHHLHAVPVWRDSVRGLA PSSSPRVPGRDLIKQTPRLRARV VLSPFKTADAAHSHPGLTQPGR GRMKADISAATPGPFMCRTVPL ALGVSTEPSPARLVLFVLCF VLRSLALSPRLEVLWDLG\SL QPPPP\GFKQFSCSLPSSW\DYR CMPPWAG\QFLEF*VEDGV*HI GQADLELLTSGDPPASASQSAG ITGVSN\RAQPQVSECCHGVAL RRQ
19857	50225	A	19973	3	320	VRMVIKKSENNRCWRKCGEIG MLLNCW*ECKLVQPVWKT/VD PAIPLLGIYPKDYISFYGKDTCT HMFIVALFTIAKTGNQPKCPSMI DWIKKMWHIYTM EY YAAI
19858	50226	A	19974	2	79	
19859	50227	A	19975	308	630	GREKAREQVDLTFTIAKTWN QPKCPSVIDWIKKIW/HIYTMGY YAAIKKDEFVSFAGTWMKL*T VSVEADPHIEGRFFRFRKNYASK TPSLKLQRQSRPFQETSHPTGIE KRSPPNLQKATQPHIMSAKEYA FSRKMVGKTGRKKGEVKVRER KGKGAGRSDTIYNSKDLEPTQ MPISDRLDKENMDIYTMGYA AIKKDEFVSFAGTMDEAVNQG YSSRARTRHWSMKKILLQLAR CLPKWPLSFVLESQGLGGVGS

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19860	50228	A	19976	2	508	KTTRYLYLTPVRMAIHKSENN RCWRGCGETRMLLHCWFECKL VQLLWKTW*FLKDVELKIPFD PAIPLLGVPKDYKSCYYKDT TRMFIAALFTIAKTWNQPKCPS VIDWIKKMWHIYTMEYYAAIK KDEFVSFAGTWMKLETILSKL SQGQKTKHRMFSLSIGS
19861	50229	A	19977	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKHKMKCSP SLAIREMQIKTTMRYHLTPVRM AIHKKSGNNRRCRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLGIPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
19862	50230	B	19978	1	1899	
19863	50231	A	19979	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK'TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
19864	50232	A	19980	1	5127	

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19865	50233	A	19981	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTEIQITIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPI TGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASH LIPKPGRDTTKKNFRPISLMNI DAKIL
19866	50234	A	19982	1	1698	MELKAKAQELREECRLSRSC NQLEESVSVMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLTGVHESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTPPQRYSSRRATPRHIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDKEGH YIIVKGLIQEELTILNTYAPSTG APRFIKQVRSDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFFSAPHHTYSKIDHIVGS KALLSKCKRTEITNYLSDHSAI KLELRIKLTQNHSTTWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVVCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQT HSKASRRQEIT KIRAELEIETQKTL/QKINESRS WFFERINKIDRPL
19867	50235	A	19983	1	3450	
19868	50236	B	19984	1	2265	

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19869	50237	A	19985	1	2526	MFFETNENEDTSYQNLRTDFKV VFRWKIIALNAHKRKQERSKID TLTSKLKELEKQQQTNSKASRR HEITNIRAELKEIETQKTLQKIN ESVNWFFEKIHKIDRLRLARIKK KREKNQIDSIKNDIEDITDPVE TQTTVREYFKHLYANKLENLEE MDKFLDTYILPSLSQEEVEPLN RPITGSEIEAIINSLPTKKSPGPD RFTAKFYQRITNTEKCLKELME/ PESQSSRTT*RMQKPQESMRST GRKGFS DGR*NE*NE*RGAWN QVGKHSAGYYPGELPQTSKAG QHSDSGNTENATKILLEKSNSK TYNCQIHQS*NEGKNVKGQSORE RNTNYHQRILOTPLRK*TRKSK EMDKFLDTYTLPRLNEEEEVESL NTPITGSEIVAIINSLPTKKSPGP DGFTAELYQRQTESQIMSELPF TIASKRIKYVGIRLIRDVKDLFK ENYKPLLSEIKEDTNKWKNIPC SWVGRINIVKMAILPKVIYRFN APIKLPMPPFFTELEKTTLNFIW NQKRAHIAN SILSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNREIDEWNTTEPSEIMPHIYN YLIFDKPEKNKQWEKDSL FNK WCWENWLAICRKLKLD PFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGIGDDFMSKTPK AMATKAKIDRWDLIKLKSFCT AKETTIRVNRQPTKWEKIFATY
19870	50238	A	19986	1	3723	
19871	50239	A	19987	1	1023	
19872	50240	B	19988	91	1596	
19873	50241	B	19989	1	3171	
19874	50242	A	19990	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYQEFLFTP QWHLECCQERTVHSPGKA AEA REPSVIDRHLIQESSNWHLVGA ALGQSFQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRKNIQON
19875	50243	A	19991	1	1797	

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19876	50244	A	19992	1	2367	MVKGSIQQEELTNLNMYAPNT GAPRFIKQVLSLDLQRLDSHTLI MGDFNTQLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYISDHS AIKLELRIKNLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKVVC RGKFIALNAHKRKQERSKTDTL TSQKLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLOKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITTDPTIIS TIREYYKHLTYTNKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAI/NNLPTKKSPGPDGF TAEFYQRK\EGILPNSFYEASIILI PKPDRDTTKKENFRPISLMNID AKILNKILANRIQQHITKLIHHD QVGFIQGMQGWFNIRKSIRVIQ HINRTKDKNYMIISIDAEKAFD KIKQCFMLKTLNKLIGDGTYFK IRAIYDKPTANIILNGQKLEAFP LKTGTREGCPLSPLLFNIVLEVL ARAIQKEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKINVQKSQAFI YTNNRQTESQIMSELPFTIASKR IKYLGIIQLTRDRKDLFKENYKP LLKEIKEDTNKWKNI PCSWVEK INIVKMAILPKVIYRFNAIPIKLP
19877	50245	A	19993	2	2910	WRKIYQANGK/QKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIHQEELTILNIYAPNTGAPRFI KQVLSLDLQRLDSHTIIMGDFN TPLSTLDRSMRQKVNKDTQEF NSALHQADLIDIYRTLHPKSTE YTFFSAPYHTYSKIDHIVQSKAL LSKCKRSEIITNCLSDHSAIKLD LRIKKLTQNHSTTWKLNLLLN NYWVHNEMKAEIKMFFETNEN KDTTYQNLWDTFKAVCRGIFIA LNAHKRKQETS
19878	50246	A	19994	1	4729	
19879	50247	A	19995	1	1566	
19880	50248	B	19996	1	2796	
19881	50249	B	19997	127	2479	
19882	50250	B	19998	1	2907	

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19883	50251	A	19999	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
19884	50252	A	20000	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLNLDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLKELEKQEQTTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQI/DAIKN DKRDITIDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVESLNRPIRGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLKLFQSTEKEGILPNS FYEASIIIPKPGRDTTKKNFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDNHMIISID AEKVFDKIQRFMLKTLNKL LEVLAARVRQEKIKIGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMSTFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLIIYKATVTKTAWY

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19885	50253	A	20001	1	2314	MDKFLDTYTLPRLNQEEVESLN RSITGSEIVAILNSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTSKKENFRPIPLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHTNRA KDKNHMIISIDAEKAFDKIQQLF MLKTLNKLGDGMYLKIRRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTLASKRIKYL IQLTRDVKDLFKENYKPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRLNAIPIKLPMPPF TELEKTTLKFIWNQKRARVAKS ILSQKNKAGGITLPDFKLYYKAI VTKTAWYWYQNRDIDQWNRT EPSEITPHINNYLIFDKPDKNKQ WGKDSL FNKWCWENGLAICRK LKLDPFLTPYTKINSRWIKDLN VRPKTRKTLEENLGITIQDIGMG KDFMSKTPKAMATKDKIDKW DLIKLKSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYA AKKHKMKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNNRLFTVAKTWIQPKCA

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19886	50254	A	20002	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEITNYLSDDS AIKLELRRIKNTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLKELEKQEETHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDTPTEIQ TTIREYYKHLIYANKLENLEEM DKFLDYYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PC SW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD

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19887	50255	A	20003	1	2502	MTELTGIQQPQIVLFEHKGHKL VQGSSSDAGKVNRIYQHYEAS DKFNYYTTGLAWKTAPEQTGKT VRKQQIKLNVKKMESRSKMQE HSSSPPEQSWRENDFDELREE AFRRSNYSELQEEIQTGGQEVK NFEKTLDEYITRITNTEKCLKEL MELKAKARELREECRLSRSCD QLEERVSVMEDEMNMKREG KFREKRIKRNEQSLQEKWDYV KTPNLRLLIGVPESDGENGTKLE NTLQDIIQENLPNLVRQANIQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTTIR EYYKHL YANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIVAIINSLPTKKSP/GPVGFTAE FCQRK\EGILSISFCEASIIIPKL GRD'TTKKENFRPISLMTIDTKIF NKILANQIQQHKKLIHHDQVG FIPGMQGWFNICKSINVIQHINR TKDKNHMIISIDAEKAFDKIQQL FMLKTLNKLIGDGT YFKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLAGAIR QEKEIKGVQLGKEEVKLSLFAD DMIVYLENHIVSAQNLLKLISNF SKVSGYKINVQKSLAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILSKVIYRFNAIPINLPITVFT
19888	50256	B	20004	1	2115	
19889	50257	A	20005	1	2382	
19890	50258	A	20006	1	2742	
19891	50259	A	20007	1	2250	
19892	50260	A	20008	1	2982	
19893	50261	A	20009	1	4791	
19894	50262	A	20010	1	2499	
19895	50263	A	20011	1	3259	
19896	50264	A	20012	1	3654	
19897	50265	A	20013	1	2391	

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19898	50266	A	20014	326	1158	LWICEVMVKQRSRLKICLQKQ WQKTLAMWLKPCMGTFLLQL C*LDIAWV/RAIAVHTASSNLVP SLLGLCMIDVVEGTAMDALNS MQNFLRGRPKTFKSLNAIEWS VKSGQIRNLESARVSMVGQVK QCEGITSPEGSKSIVEGIIIEEEE DEEGSESISKRRKEDDMETKKD HPYTWRIELAKTEKYWDGWFR GLSNLFLSCPIPKLLLLAGVDRL DKDLTIGQMKGKFMQVLPQC GHAVHEDAPDKVAEAVATFLI RHRFAEPIGGFQCVPFGC
19899	50267	A	20015	1	2860	
19900	50268	A	20016	1	2956	
19901	50269	A	20017	1	3359	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDSLLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQEEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
19902	50270	A	20018	3	3130	
19903	50271	B	20019	8	2398	
19904	50272	A	20020	3	3398	SNSHITILTLNVNGLNAPIKRHR LANWIKSQDP\SVSCIQETHLTC RDTHRLKIKGWRKIYQANGKQ KKSTVAILVSDKTDFKPTKIKR DKEGHYIMVKG*IQ*EELTILNI YAPNTGAPRFIKQVLRDLQRDL DSHPHIMGDFNTPLSTLDRSMR QKVNKDIQDLNSALHQADLTDI YRTLHPKSTEYTFFSPPHHTYSK TDHIVGSKALVSKCKRTEITNC LSDHSAIKLELRIKLTQNRSTT WKLNNL
19905	50273	B	20021	483	2210	

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19906	50274	A	20022	1	5316	MVKGSIHQEELTILNIYAPNTG APRFKQVLSDLQRDLDFHTLI MGDFNTPLSTMDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFYSAPHHTYISKIDHILG SKALPSKCKRTDIITNYLSDHSA IKLELRIKNLTQNHSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYENLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAEQINKIDR
19907	50275	A	20023	2	2712	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYISKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAL NAHKRKQERSKIDTLTSQLKEL EKQEQTLSKASRRQEITKIRAE KEIETQKTLQKINESRSRFFERIN KIDR*\TLARVIKKKGEKNQIDTI KNDKGDITTDPTIEIQTITRESYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPTGSEIVAI VNSLPTKKSPGPDGFTAIFYQR YKEELVPFLKLLQSIEKEGILP HSFYEASIIIPKPGRDTTKK\EN FRPISLMNIDAKILNKILANQIQ QHIKKLIHHDQVGFIPGMQGW NTCKSINVIQHINRTKDKNHMII SIDAEKAFDKIQPFMLKTLNK LVLEVLARAIRQEKEIKGIQLGK EEVKLSLFADDMIVDLENPIVS AQNLLKLISNFSKVSGYKINVQ KSQAFLYNNNRQTESQIMSELA FTIASKRIKYLGIQLTRDVKDLF NENYKPLLNEIQEDTNKWKNI CSWVGRINIVKMAILPKVIYRF

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19908	50276	A	20024	1	4461	MVASRSSRVGVFYGGQNSVDG VSRRSDGSLNELCLYRPPTGAY LAYDTLDVLP SGQFTVNTPPID VNGKSLALLWEHTSLLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLDRSGRSRLDAAQHL RHRPDRRPQGMVGVL TNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPIDRKEGILPNLFDEASILIPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICK
19909	50277	B	20025	1183	4247	
19910	50278	A	20026	1	2671	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRPLARLIKKR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHLYANKLENLEEM DTFLDYTLPRLNQEEVESLNR PITGSEIVAIHNSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSQGQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTAQ GNLQIQCHPLQATNDFLHRIGK NYFKVHMEPKKSPHRQVNP KP KEQSWRHHTT*LQTI LQGYSNQ NS\MVLVPKQRYRSMEQNRAL RNNAAYLHYS D\A*QT*EKQA WGKGIP\YKMA\LGKLA\PM*

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19911	50279	A	20027	1	3159	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKISES WSWFFEKINKIDRPQARLIKKK REKNQIDTIKND
19912	50280	A	20028	2	3767	HRLANWIKSQDPSVCCIQEAYL TCRDTHRLKIKGWRKIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGLYIMVKGSIPEELTIL NIYAPNPEAPRFTKQVLSDLQR DVDSHTIILGDFNTPLSALDRSM RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHRVGSKALLSKCKRSEIIT NCLSDHSAIKLELRIKKLTQNC TTWKLNNLLLNDYWVHNEMK AEIKMFFETNEN
19913	50281	A	20029	3311	9648	KLYVCITRITNAEKYLKELMEL KAKAQELCEECSRLSRHDQLE ERVSVMEDQMNMKQEEKFRE KRRKRNEQSLQEIWDYVKRPN LRLIGVPESDGENGTKLENTLQ DIIQKNFPNLARQANIYIQEI QRTPOQRYSPRRATPRHIVRFTK VDMKEKMLRAVREKGFKPTKI RRDKEGHYIMVKGSIQEEELTI LNIYAPNTGGPRFIKQVLSDLQ RDLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQEL
19914	50282	A	20030	2031	6332	QDSNSHITILTNI\NGLNAPI*R HD\RN CNWIKSQDPSVCCIQET HLTCRDTHRLKIKGWRKIYQA NGKQKKKAGVAILVSDKTDFN PTKIKRDKEGHYIMVKGSIQEE ELTILNIYAP\NTGAPRFIKQVLS DLQRDLDSHTI\IMGDFNTPLS TLDRSRRQKVNKDTQELNSAL HQADL\IDIYRTLHPKSTEYTF SAPHHTYSKIDHIVGSKALLSK CKRTGIITNYLSDHSAIKLELRI KNLTQSR
19915	50283	A	20031	2	178	
19916	50284	C	20032	88	228	

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19917	50285	A	20033	3	382	VDRTIMSDSLVVCEVDPELTEK LRKFRFRKETDNAAIIMKVDDK RQMVLVEEEFQ\FVVYSYKYV HDDGRVSYPLCFIFSSPVGCKPE QQMMYAGSKTRLVQTAECLK VQTGMWLQSVRERWCGSWV
19918	50286	A	20034	89	633	KTAELRKEEACGQNNHALPGS LRQSDSLVVCEVDPELTEKLRK FRFRKETDNAAIIMKVDDK/RG QMVVLEEEFQ\NISPPRELAKMG FPRRDKPR\FVVYS\YKYVHD\D GRVSYPLCFIFPPRPVGCKPEVQ QMMYAGSKNRLV\QTAECLK GVPKSRTT*LTSLRPWL\QEKLS FLSLISGAGD
19919	50287	A	20035	78	638	WLDLTWKESSADSQFLFLEKMD HSHHMGMSYMDSNSTMQPSH HHPTTSASHSHGGDSSMMM MPMTFYFGFKNVELLFSGLVIN TAGEMAGAFVAVFLL\AMFYE GLKIARESLLRKSQVSIRYNSMP VP\GQNG\TILYGRTHKTVG\QQ\ MLSFPHLLQTVLHIIQVVISYFL MLIFMTYNGYLCIAVA
19920	50288	A	20036	1	849	MSQKMENLIGNAHISAYEIIKEF QKEQHQAQLPGTTVPCSCQVY KCSKRPERVAREGPSEDLEPLP QTVRKCGQGCTLHGAGGSQGG VGARPFGIGGVEALWFLASPSY WAPLIPQCQLGKLLVVRLVQL QARRELAPMLAPGAACPMVAT ACLTVQWPDPMLTHTPLTIPHL TCSLLGGNVELLFSSLVINTAGE MAGAFVAVIILAVFYEGLIAQE SLL*PNGTILM*THKTVGQQML SFPHLLQTVLHIIQVVISYLLMLI FMTYNGSSELLFRGERPR
19921	50289	B	20037	308	568	
19922	50290	A	20038	394	528	
19923	50291	A	20039	186	856	TWGKGDILRRPRRKMSSY/SHF FVQTCRGGHKKKHPRLLQVN\ FSEF\SKEVLQRGWRPMSCLKR KGKILKIWAKAGQGPFLERELK TLYPLPKGEDQKKKFKDPNCTP RGPPS\AFFPLLALEYPPQKSKG EHPWPVPLVDVAEENWETMW ELTLLQMDKQP\YEKKA\AKLK EKYEKDIACISSLKGPDAKK RELSRPEKSKKKKEEEDEEDE EDEEEDEDE*DEEDEEEDEDE

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19924	50292	A	20040	1	413	GAMRGDRGRGRGGFRFGSRGGP GGGFRPFVPHIPDFYLCMAFP RVKPADETSFSEALLKRNQDL APNSAEQASILSLVTKINNGNE KL\VGSPGTLKAHIEKFTRGIPY KRGTVSRGHNVADLGGKLIK\A PPLEAV
19925	50293	A	20041	70	1451	GAMRGDRGRGRGGFRFGSRGGP GGGFKPFVPHIPSDFYLCMAF\ PRVKPADETSFS*GLA*RRNQ DLAPNSAEQ\ASILSL\VTK\NN V\IDNLTCGSQGHFEVAKLEE\ RQVGDP\IKRGTMTTGHNVA*/L WVVIPQEFWQRLEA\VACPGGN KVVESLR\SHQDPSESF\KPCLTN E\TGFEISSDATVKILITT\VPP\N LRKLDPELHLDIKVLQSALAAI RHARWFEENASQSTVKVLIRLL KDLRIRFPG\FEPLTPWILDLLG\ HYAVMNNPTRQPLGLKRWHN RALAWQISGLAGTVSCQG\SVG YSIDPCESWQL*ELHTVMTLEQ Q\DMV\CYTAQ\TFVRILPHGGF RKILG\QEV\ASYLASEIST\WD GVIVTPFRKRLYEK\PEK\KEG EEEEENTEEPTSRGRRK\HGN\ SGVTIPLPLLFPNPRGKTGALSC PAYWALHGDRHFPWDREDSRK
19926	50294	A	20042	253	379	
19927	50295	A	20043	284	1062	APRNYLPQRATASVRRQQISFS NEHTPHQSLHEIPNVRQRHSGL MKLNTMGAMTTSTTSAVANH* PSNKRTPLVSV/MQSASPEQRQ AVRERMQTNPKIQQRREAARE RIQSASPEQRQAVREKMQTNPQ NQRRDAARERIQSASPEQRQV FKEKVQQRPLNQQRDNARQR VQSASPEQRQVFREKVQESRPQ RLNDSNHTVRLNNEQRSACE RLSERGARRLESLYGRHMQAN PEPPKKNNDKSKKISRKPLAAK

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19928	50296	A	20044	1	2269	MSPDIPQVSPEVGLYPVANHSSI VVPTCHSLSEEDTEAQRNHELD TVKALREDAQVLKIPNQSPKDT LVTALQLAQKGTAAAIRLGA KVGQKQSRQAKSSPALVVPGL LSFPRARFFEWQSPGLPNTAAM ENGTGPYGEERPREVQETTUTE GAAKIAFPSANEFYNPVQEFN RDLTCAV\TEFARIQLGAKGIQI KVPGEKDTQKVVDLSEQEEE KVELKESENLASGDQPRTAAV GEICEEGLHVLEGLAASGLRSIR FALEVPGLRSVVANDASTRAV DLIRRNVLNDVAHLVQPSQA DARMLMYQHQRVSERFDVIDL DPYGSPATFLDAAVQAVSEGG LLCVTCTDMAVLAGNSGETCY SKYGAMALKSRACHEMALRIV LHSLDLRANCYQRFVVPLLSIS ADFYVRVFRVFTGQAKVKAS ASKQALVFQCVGCGAFHLQRL GKASGVPSGRAKFSAACGPPVT PECEHCGQRHQLGGPMWAEPI HDLDFVGRVLEAVSANPGRFH TSERIRGVLSVITEELPDVPLY TLDQLSSTIHCNTPSLLQLRSAL LHADFRVSLSHACKNAVKTDA PASALWDIMRCWEKECPVKRE RLSETSPAFR\LSVEPRLQANFT \IREDANPSSRQRGLKRFQ\NP EA\NWGPRPRSRP\GGKAAD MEER\RRLQNKRKPEPEDVA
19929	50297	A	20045	1578	2356	PLRRWACNHKLRLQNAHQLSSTI HCNTPSLLQLR\SALLHADFRV SLSHACK\NAVKTDA PASALW DIMRCWEKECPVKRERLSETSP AFRILSVEPRLQANFT\IREDANP SSRQRGLKRFQANPEANWGPR PRARP/GVSGGKVGVLSSQGKK G*RADGVPTPSPSHRGKAAD AMEERRRLQNKRKPEPEDVA QRAARLKTFPCKRFKEGTCQRG DQCCYSHSPTPRVSADAAPDC PETSNTTPPGPGAAAGPGID

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19930	50298	A	20046	1	791	MGPSSIIHSSQHATAPQILPKVR AGPRSSGCRISECRREEKPPKGR RGLKDATRPGVNWGPDGGVQS GAGAQPWSLTPLPPGSVSPAGR AQRRSMRAAAAQERSPGRRRL GKEPLIRESWTRSAPWRCLSQD AGRAGSQVCGSSPQTRGAAAE KVAVTGAKSCSGRGKKAAAAR AKSRGGGGRKTQKAAAASRG C/AGQRSPKSRGSRG*IPRGRGQ KAAVAGAESNGGGGKKSRRRR HKAATRSGGKNPWRQKAAS AGAK
19931	50299	C	20047	76	327	
19932	50300	A	20048	336	814	ANFSLEDPSCSPPPRLLAGSFVD SPQSLSCMRSKNPLLGS GSGPLS PTYIL*ATTPHFLLPQPLITTSPSS PSPSPPLPPPPSFSSSYSSSSFF E/NRVPLCCPCFGSAIRKPSPSVS TKARPQGETGRSLALLFLPQRP SSSLHRSDTLYRDCVHRI
19933	50301	A	20049	1	310	
19934	50302	A	20050	1	1482	
19935	50303	A	20051	3	2455	
19936	50304	A	20052	3	1441	

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19937	50305	A	20053	1	2322	MAEGKGEAGTFFTGGQDRLLF VFFIITIVVGLFRCSVFSSSSSSSS LSSSSSSSSSSSLSSSFLHLFFIFIF VFFVFIFFVFIFVFVFAFFFIFFVF VFFFVFFFFVLLVEILMRPTISIR GQKLKISDEMSSKDCLSILYNTC VCTEGVTKRLAEKNDVFIFLFT LMTSKKTFLQTATLIEDILGVK KEMIRLDEVNLSLVSNFDQQ QLANFCRILAVTISEMDTGND KHTLLAKNAQQKKSLSLGP AEINQAALLSIPGFVERLCKLAT RKVSESTGTASFLQELEEYWT WLDNALVLDALMRVANESEH NQASIVFPFPGASEENG\LAHTS ART\QLPQSMKIMHEIMYKLEV LYVLCVLLMGRQRNQVHRMIA EFKLIP\G\LNNLFDKLIWRKHS ASALVLHGHNHY\CDSPDITL\ KIQFLRLQLSFSDDHENVYLL NNQELNELSAISLKANIPVEAV LNTDRSLVCDGKRGLLTRLQ VMKKEPAESSFRFWQARAVEE FPSRGTTSYADQMFLLR\GLL EHILYCIVDS\ECKSRDVLQSYF DL\LGEL\MKFNVDAFKRFNKYI NTDAKFQVFLK\Q\NSSLVDSN MLVRCVTLSLDRFENQVDMKV AEVLSECRLLAYISQ\VPTQMSF LFRLINIIHVQTLTQENVSCNLT SLVILML\ARRKERLPL\YLRL\ QR\MEHSSKKYPGLL\LNNFHN

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19938	50306	A	20054	237	2033	TSPTPLPLPATMPKTISVRVTM DAELAEFAIQPNTTGKQLFDQV VKTIWLEGKFGFFGLQNQDTK GFST\WLKLNKVD*PRNVRKE \SPLLFK\FRAKFYPÆDVSEELIQ DITQRLF\FLQVKEGILNDDIYCP \PETA VLLASYAVQSKYGDFNK EVHKS GYLAGDKLLPQRVLEQ HKLNRD\QWEERIQVWHEEHR GML/RGEDAVLEISERLLQDLE MYGVNYFS\KNKKGSELWLG VDALGLNIYEQNDRLTPKIGFP WSEIRNISFNDKKF\VIKPIDKK APDFVFYAPRLRINKRILALCM GNHELYMRRRKPD TIEVQQMK AQAREEKHQKQMERAMLENE RKKREMAEKEKEKIEREKEEL MERLKQIEEQTKKAQQELÆEQ TPRAPGTLSQERKRAQSEAEKL AKERQEAEEAKEALLQASRDQ KKTQEQLALEMAELTARISQLE MARQKKESEAVEWQQKAQMV QEDLEKTRAEKKTAMSTPHVA EPAENEQDEQDENGAEAS\ADL RA*S\MAKDRSEEERTTEAEKN ERVQKHLKALTSELANARDES KKTANDMIHAENMRLGRDKY KTLRQIRQGNTKQRIDEFESM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19939	50307	A	20055	2	2230	PRVRLGAHGCPPGPRRCGCCW ANGLRSSERC VLES LRPCVQSA TRGLRCGCDSAANLDTMAKPP QGAGDRGSIHDFPGFDPNQDAE ALYTAMKGFSGDKEAILDIITSR SNRQRQEGCHSYK\SLYGK\DLI ADLK\YELTGKF\ERLIVRLMRP PAYCDAKEIK\DAISG\IGTDEK\ CLIEILASRTNEQMHQLVKRITK MPTERDLEADIIGDTS GHFQKM LVVLLQGTREDDV VSEDLVQ QDVQDLYEAGELK WGTDEAQF IYILGNRSKQHLRL VFDEYLKT TGKPIEASIRGELSGDFEKLMLA VVKCIRSTPEYFAERL FKAMKG LG\TRDNTLIRIMVSRSELDMLD IREIFRTKY*/EKS LYSMD/IKND TSG/QSYKKTL LKLSGGDDDA DQFFPKAAQVAYQMWELSAV ARVELKGTV\RPANDF\NPADAD AKALR\KAMKGLGTDEDTIIDII THRSNVQRQQIRQTFKSHFGRD LMTDLKSEISGDLARLILGLMM PPAHYDAKQLKKAMEGAGTDE KALIEVILATRTNAEIRAIN EAYK \EDYHKSLEDALSSDTS GHFRRI LISLATGHREEGGENLDQARED AQVAAEILEIADTPSGDKTSLET RFMTILCTR\SYPHVRRVIQEFIR LTNYDVEHTIKK\EM\SGDIRDA FVAIVQ\SAKTKPLFFPDK\LYK SMKG\AGTDEKTLTRIM\VSR\G
19940	50308	A	20056	3	368	
19941	50309	A	20057	1	936	MMKCEEQKEEEEETVRMFSA SQPLDPDGT LFR LRFTAMVWW AITFPVFGFFFCIIWSLVFHF EYT VATDCGVSASSPAPGSGPG\PN YLPVS SAI GGE\VPQRYVWRFC IGLHSAPRFLVA\FAYWNH YLS CTSPCSCYRPLCRLNFGLNVVE NLALLVLT YVSSSEDFTIHENAF IVFIASSLGHMLLTCILWRLTKK HTVSQEVRSIPSGGSKAAQKKI KDICPQDSGNGEDRKSYSWKQ RLFIINFISFFSALAVYFRHNM YCEAGVYTIFAILEYTVVLTNMA FHMTA WWD FGNKELLITSQPE

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19942	50310	A	20058	119	930	ESLFPSLAFLSPSKPLFSHPPSFH LSNKQDTSPCSCVLSSPFSRLTE ASIGVPGIKMDGGNAQEHGHFL RLPQVPNYLPSVSSAIAREVPQR YVWRFCIGLHSAPRFLVAFAY WNHYLSCTSPCSCYRPLCRLNF GLNVVENLALLVLTIVSSSEDF /TWVPG*GRSGEVFPEGTGLPLP HSDLPTSWCGHSLQCGSQSSFP PAIHENAFIVFIASSLGHMLLTCTI LWRLTKKHTVSQEVRSIPSGGS KAAQKKIKDICPDQSGNGEVGT EF
19943	50311	A	20059	3	206	
19944	50312	B	20060	80	304	
19945	50313	A	20061	1	2111	MAATGTAAAAATGRLLLLLLV GLTAPALALAGYIEALANAGT GFAVAEPQIAMFCGKLNMHVN IQTGKWEPTGTGKSCFETKEE VLQYCQEMYPELQITNVMEAN QRVSIDNWCRDCKKQCKSRFV TPFKCLVGEFVSDVLLVPEKCQ FFHKERMEVCENHQHWHTVV KEACLTQGMTLYSYGMLLPCG VDQFHGTEYVCCPQTKIIGSVS KEEEEEDEEEEEDEEEDYDV YKSEFPTADLEDFTAAVDED DEDEEEGEEVVEDRDYYYDTF KGDDYNEENPTEPGSDGTMSD KEITHDVKVPPTPLPTNDVDVY FETSADDNEHARFQAKAQLEI RHRNRMDRVKKEWEEAELQA KNLPKAERQTLIQHFQAMVKA LEKEAASEKQQLVETHLARVE AMLNDRRRMALENYLAALQS DPPRPHRILQALRRYVRAENKD RLHTIRHYQHVLAVDPEKAA/Q MK\SQVMTHL\HVIEERRNQSL LLYKVPYVA\QE\QEEIDDVLQ EQRADMDQFTASISE\TPVDVR VSSDESEEIPPFHPPHPPAPT* ERRILGVGRAGWGGLIGAEK VINSK\NKVDE\NMVH*TRLLD VKEMIFNAERVGG\LEEERESV GPLREDFSL\SSSALIGLLVIAVA IATVIVISLVMLRKRQYGT\SH GIVE/VVDPMLTPEERHLNKMQ

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19946	50314	A	20062	61	2634	SQPAEGKWSTGNAATATAGVL LLPAACGA*TAPALAL\AGYIEA LAANAGTGFAVAEPSNSPMFC GKLNMPCETFTQTK\WEP\DPN QAPKSCF*NQKEEVSSSYF\QEM YPRAYRSQNVMEAKPAGLRID N\WC\RRDKKQ\CKSRFCYTFSS CLVG*IL*SDVPAKFPEKVPSFF HK\ERMEVCE\NHQ\HW\HTVSQ KKAMS*PPGK*PLIIANGMPASP CGGRTSFHGTE\YVC*PSAQRLL GSCV\TKEEEEEEEE\KEEEEEDE KGD\YAVYKGNFLL*ADLEDST EAA\VEDDEDDEDEREGEDVVEDR EYYDYDTFKGDDYNEENPN\DPG SAATMSD\KEITHD\VKAVCSQE A\MTGPCRAVMPLWYFYLSKG KCVRFIYGGCGGNRNNF*SEDY CMAVCKAMIPPTPLSTNDDDF F*TSKDDNEHARFHKAKEHVVI RPRNRMDRLK*EW*YAQL\QLK \NLPKAERQ\TLIQHFQA\MVKA LEKEAA\SEKQQLVET\HTLARV EAMLND\RCLMALENY\LAALQ SDP\PRPHR\ILQALRRYVRAEN KDR\HTIRHYQHVLAVDPEKA AQM\KSQVM\THL\HVIEERRNQ SLSLLYKVPYVAQEIQEIDELL QEQRADMDQ\FTASISE\TPVDV \RVS\SEGRGEIPPFHFPFPALP ENEDTQPV\LYHPMKKSGSVGE QDGGILVAAEK\VINSK\NKVDE
19947	50315	A	20063	734	1049	CCPPGGTGRCLGTCGYHN/CGC SI*SSDLPQR/CCVSGRR*TFWM VWSACVCASGCLPGGNRCCCP VSLSPERIAVLGGLLPRKPPCRV VGERRSVLTLQATSQCPR
19948	50316	A	20064	6	1174	
19949	50317	A	20065	285	567	SRRRSSSYERSGSYSGRSPSPYG RRRSSSPFLSKRSLRSPLSRKS MKSRSRSPAYSRRHSSSHSKKKR SSSRSRHSSISPVRLPLNSSLGAE LSRKKKERAAAAAAKMDGK ESSYERSGSYSGRSPSPYGRRRS SSPFLSKRSLRSPLSRKSMKS RSRSPAYSRRHSSSHSKKKRSSSR SRHSSISPVRLPLNSSLGAELSR KKKERAAAAAAKMDGKESK GSPVFLPRKENSSVEAKDSGLE SKKLPRSV

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19950	50318	A	20066	214	805	LGLQAANDLHLEYAMGKRYFC DYCDRSFQDNLHNRKKHLNGL QHLKAKKVWYDMFRDAAAIL LDEQNKRPCRKFL\TGQRDFG SN\CRFS\HMSER\DLKELASIQVE EGRGEPREWLL\DAPELP\EGHL GGLGLEERRAKRLELQPQVSQ G*NPFRTT/VSFQ*PRRVGQPSS GSLPPNSCGHPPPGGLALLQPR V\QWG
19951	50319	A	20067	2	418	
19952	50320	A	20068	1	1134	ATTARRRGAPGTPSLAAEGNGL SARVDEGVVEFFSKRLIQDRL WAPEEDPATEGGATVPRTLRLK KLGTLFAFKKPRSTRGPRTDLE TSPGAAPRTRKTTFGDLLRPPT RPSRGEELGGAEGDTSSPDAG RSRP\PTQEIARPTR*YCCLPRRR QRWVPDPTSGGPWSGEKQNWL HPLNSGYK*CCRG*ASAEAAGV PKARGSKAKMARSRKLAQMV TLWTVPRRPLPSRSSPAPT/PVS ADPSCRPGPGSQGPESATWKT GQQLNAELRSRGWGQDGP PSPGQSPSPCARTSPSPDSLGLPED PCLGPRNEERPLRLQRSPLVKR RPKLEAPPSPSLGSLGTEPLPP QPTESPSPERSPPSPATDQRGGG
19953	50321	A	20069	3	206	
19954	50322	A	20070	3	349	
19955	50323	A	20071	226	610	
19956	50324	B	20072	18	1306	

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19957	50325	A	20073	3	1665	LRPQGREGGDWEGGRSPFSLPY GSLRGRVVSTAQFRVPMPSASA SRKSQEKPREIMDAAEDYAKER YGISSMIQSQEKPDRLVLRVRD LTIQKADEVVWVRARVHTSRA KKGKQCFLILRQQQFNQALVA VGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQD VELHVQ\KIYVISL\AEPRLPLQL DDAVRPEAEGEEEGRATVNQD TRLDNRVIDLRTSTSQAVFRL\Q SGICHPLRETLINKGFVEIQTPKI ISAASEGGANVFTVSYFKNNA\ YLAQSPQLYKQMCICADFEKVF SIGPVFRAEDSNTHRHLTEFVG LDIEMAFNYHYHEVMEEIADT M\VQIFKGLQER\FQTEFQTVNK QFPCEAISNFWPEPTLRLEYCEAL AMLRGKLESEMG\DEDDLSTPN EK\LLG\HLVKEKYDT\DFYILD KYP\IGL*RPF/HL\YPCP*PPRNPQ QVPTLTNMFHEREKKYLSGAQ\ RIH\DPQL\ALTERALH\HG\NLEK IKAYIDSFRFGSPSP/HAGGGIGI/ ENRVTMLFLGLHNVRQTSHVP
19958	50326	A	20074	3	424	
19959	50327	A	20075	178	859	
19960	50328	C	20076	304	592	

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19961	50329	A	20077	1381	2936	PTNPRPSPGLARWAESYEAKCE RRQEIRSRRCRPNVTTTCRQVG KTLRIQQREQLQARARLQQFFRR RNLELEEKGKAQHPQAREQGP SRRPGQVTVLKEPLSCARRISSP REQVGRVKGHTAVCSGTLGSGQ GGWV/R/RPPSLHRACRES*DNC PSSLALTLSHPHSSLERTQ*I/SH ALTFWNSMIYPRSSRLILPQASD SSW/KGKGKMKFFLNKAWASMC SHLIFLSTGKHSEGYFHLRNLEL NEKNVFEP\KAKESLQKVLEEK MNAEQQLQSTQVWGCHIDMG LGTPGSLGNKGSQQLQRTLGTQH RELESQHLVLSKQLQVPGTGGG EGRQGMGRRDGDERSCSAKIE CLQGDRDLCSLDTQDLQGTLLL GGLECMAAMAK*AKKKETEAF QILKVHRVFLGSWPTKGTQVW SPKSFPNEVEPEGTGKEKDWDL RDQLQKKTLQLQAKEKEVRG* PEIVRAHLRNSRETWEAVKNCR EELNQSQQLPPRVRGSLPIKP WMMGRFLL*PSFAHKDNLMI
19962	50330	B	20078	1	1173	
19963	50331	A	20079	16	1584	SSRFLSLGWLWEAPEVGTRSG WLQRRPGLGAG\LGQ\QEKQFL PALLSFFIYNPRFWPRÉGEEENK ILFYHPNEVEKNEKIRNVGLCE AIVQFTRTFSPSKPAKSLHTQKN RQFFNIEPEENF\WMVMVVRCP IEKQSKDGKPVIEY\QEEELLDK VYSSVLRQCYSMYKLFNGTFPE SHGRRR\VKLLKERLEKFFHRY LQTLHLQSCDLLDIFGGISFFPL DKMTYLKIQSFIN\RMEE SLNIV KYTAFLYNDQLIWSGLEQDDM RILYKYLTTSLFPRHIEPELAGR DSPIRAEMPGNLQHYGRFLTGP LNLNDPDAKCR\FPKIFVNTDDT YEELHLI\VYKAMSAAVCFMID ASIHPTL\DFCRRTGTASLGPQL HSGWASGHLVEQF\NINKGDVP GLRKIEPQFKFI\YFNHNMNLVEK STVHIEENAPACPLTSVHPDLAM KIPR*PSNSDLYPRVIDEDEGDH C*RALSDYWVVGKIKSDPAGS LYVIFEIQKNAKP*LKVK*KRSK KPLCNASSNNILPSLD

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19964	50332	A	20080	85	420	LSNLF L HATNDGALTSTTIPHP MRQPTS/S/GDGSEIFLHTELKLL EPPHAWPQSCPPRL*MTRQQLL PMTFLLKAHSKAGIESPGLNPR PGFSLHPVLPAASSAAFLLP S FR
19965	50333	A	20081	220	563	
19966	50334	B	20082	1	576	
19967	50335	A	20083	111	3586	TMFGLKPPLYFLPGSSLSSESSP VSSPATNHSSPASTPKRVPMGPI IVPPGGHSVPSTPPVVTIAPTKT VNGVWRSES R QDAGPRSSSGG RERLIVEPPLPQEKAGGPAIPSH LLSTPYPFGLSPSSVVQDSRFPP LNLQRPVHHVVPSTVTEDYLR SFRPYHTTDDL R MSSLPPLGLD PATAAA Y YHPSYLAPHFPHPA FRMDDSYCL S ALRSPFYPIPTPG SLPPLHPSAMHLHLSGVRY P PE LSHSSLAA
19968	50336	A	20084	576	1261	GDDLCSVGAPCRSTWACSTPLR CVRRSREFPGLPHAAGAARGFR LPAGRPV P ARPGAAAA R AAAA GEAHRPLPCGRRPGPV R RAAVP PRPRPPRRGLRGRREGPAAPAG PGGPSLLCASAGR H GPPGLRAG QGLRDSAGEAGGEPAP/AGPRP EASP*RSSLCENTCTEAGLGPRR AAGDLGSPWLTSGLLWGSFFLF FLFFFVILRQSL L SPKTEVAVA QLMSHCSL
19969	50337	A	20085	248	356	EGEEEGDEENDPD\MTQRRIKT QQSASSEAGCMWP
19970	50338	A	20086	1043	1191	NFYFSCKNKNKANKQQITWK\ KGLSNGCKFILSGGRQKGR T LP Q R ERMA

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19971	50339	A	20087	287	1401	CQNPQIPCSPFKKRLDG/LWVETPT\GYIESLP\RVVKRR\VNALKNLQVKCAQIEAKFFE/EKVHGFFERKYAVL\YQPLFD\KRF\EIINAIYEPT/EKECEWETR*RKDEDFGGNWKEKGQIEDEKKDE\EKE DPKG/IFPEFWLTVFK\NVDLLSDMVQEH\DEPILKHLKDIKVKFSDA\GQPMSFVLEFHF\EPNE\YFTNEVL\TRTYRMRSEP/DTRLILDPFSSFDGPEIMGCTGCQIDWKKGKNVTLKTY*GGGRKHKGRT\VRTVTKTVS\NDSFSNFFPP\PEIPE/DVGDLDLDDAGSLFLAGRLSEIWFTFYRERIIPRSSVNILPGEA\IEDDDDDYDEEGEEADEEGEEE GDEENDPRLLTQR\RIKTQQSAS
19972	50340	A	20088	1	350	DNLEAEA VAPCTAAARA VAPDLFVFAA *PESVSAGGPQQPCRSPIVKPGLP SFRPSSCTQPWLTHSWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVP
19973	50341	A	20089	1	399	
19974	50342	A	20090	1	394	
19975	50343	B	20091	82	351	
19976	50344	A	20092	3	789	CGTSRMCHTTEELA/SDPIL/YRPLA VALDTKEPEI/RNGLIKSGTSEVELKKGATLKFTRNNAY/MEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVNLPGA AVDLPAVSEKDIQDLKFGVEQDVDMVFASFIRKASDVHEVRKV LGKEGKNIKIISKIENHEGVRRFDEILEALGHWA VVPLKPTLALALTCFSSSLGLSSLHLSPPSTQLSCSKHSTLHLPFSPTTAAPPGLLL
19977	50345	A	20093	3	424	
19978	50346	A	20094	2	173	IYHLQLFEELR/RLAPITSDPTEATAVGAVEASFKCCSGAIIVLTKSGRSAHQELGP
19979	50347	B	20095	1	1362	

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19980	50348	A	20096	1	1982	QRDNLEAEAVAPCTAAARAVA PDLLRLCSVRPSRSAPEDRQQP CLFSHSEAGTAFIQTQQLHAA\ MADTF/LWEHMCRL\DIDSPIT ARNTG\IIC\TIGPGLPDQVETLK EDD*SLGMKCGSVLNFSSWEL HGVMTMRETIQGMWRTANGKA FAFLTPFLLPGPLAVGFRTLKGP EIPNWGSSKGNGT\AEVGA*RK GATLKFTL\DNAYMEKC\DENI L\WLDYKNICK\VEVG\SKIYV DDGLISLQGKQK\GADF\LVTEV ENGGS LG\IMKGVNLP\GA AVD FACLCRRKDIQDLKFG\VE\QDV DMVFASFIPQSILMFHEVRKVL G\EKGKDHQGLSSKIRESMRGF RRFD\EIL\EASDGI/LWVARG*F *ALRIPA EK\VFLAQKMIDLDRF NRA\GKP\VICATQMLES MIKKP RPTRA\EGSD\VAN\AVLDWKPT CIMLSWEKQPKGDYPL\EA V\ R MQHL\IAREARWLPSYHLQLF\ EELRPPGAQLTSDPTEATAVG\ VEASFKCC\SGAI\VLTKSGKVC SPRLARYRPRAPIIAVTRNSPGK LVRAHL\YRGIFPG\VCQGPDSR RAWA*DIG\LRVKLCHGMFGK ARGFFQERGDVVHCA*PEWRP WLPAPPNNMRVVPCCRDGPRG PSSSRPCSHPPFPKPIPRPSNGL VELHSGAVNVATG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19981	50349	A	20097	215	1893	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSRK NPRPSLRGPLLTFESRLRFREF VYQEAAGPHQTLARLHELCRQ WLMPEARSKEQML/ESLLVLEQ FLGILPDKVRPWVVAQYPESCR SSLLVEGLADVLEEPGPSTVDR DAAGLPCGLILNS*RWSVREAH GPSAATRRAREPQPGPWSWGD PGTF*DTLAFSGPPVSGTEEGQ/ MKQRPKRTALP/HTEQVGGHE QVGGRSQ/RTTNVSEAEVLSRG PSAPGGVGPPGPCAEENLKSRYK LLLWEGGRRQESAGCACEEAA PAG\GCLSLRRRPLGTPLPIPRR A\H*GGGRAAWEGPGPAGPPGR GVRLCHRIAEAVRHPAACP/ET GARRNWEPRGRTPRMGTGRAS RA/CSSSGDSAGLEAGQGPAD EPGLSRGKPYACGECGEFAW LSHLMESHSSHGGRKRYACQG CWKTFHFSLALAEHQKTHGKE KSYALGGARGPQPSTREAQAG ARAGGPPEVEGRGSPRTPRGA EVSRCAPFRRGRFAGRESQTR HWAFPRPWVAASCGVCGRPLP
19982	50350	A	20098	5	372	
19983	50351	A	20099	1	129	
19984	50352	A	20100	1	627	
19985	50353	A	20101	1	441	
19986	50354	B	20102	1	477	
19987	50355	A	20103	2007	2156	

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19988	50356	A	20104	1	717	MKLRTLA VSVTALKVARLGSA PSDVQMCLEFLPSDSGAQLASP SGSRTGAAGGAACQSGAVRSY SSALGWSMGLGAVEQGVVLV GDARAAQEPMEWMGGSGMAG CRSRALHRGKAAKARREIEHSA GRKGLFGSARLIPATAMAPRSR LLSLGRRGNFRSRVLRKSRPL EEAARRWRDCPTGFGALVAGA GSGRAPGVPPKRLPARTKAQVS RETRGSGEVTAQGGKGPRGLW ILLWGFYNLLPTTSHAESYPERL IQKVVSEKIALARALARYLHLPFG LLGGNKTI VYSWEALRFHHQLT PSVITNTVIKVYEEP KLSQQKSR TLDVSTDEEDKIHHSSES KDDQ GLSSDSSSSSLGEKELSSTVKIPD AAFIQAARRKRELARAQDDYIS LDVQHTSSISGMKRESEDDPEIS RNEETSEESQEDEKQDTWEQQ QMRKAVKII EERDIDLSCGNGS SKVKKFDT SIFPPVNLEIHKQL NTRLTLLQETHRSHLREYEKYV QDVKSSKSTIQNLESSSNQALN CKFYKSMKIYVENLIDCLNEKII NIQEI ESSMHALLLKQAMTFMK RRQDELKHESTYLQQLSRKDET STSGNFSVDEKTQWILEEIESRR TKRRQARVLSGNCNHQEGTSS DDELPSAEMIDFQKSQGDILQK QKKVFEEVQDDFCNIQNILLKF QQWREKFPDSY YEA FISLC*RQ
19989	50357	A	20105	154	744	SQRNLC LGRVWYILFFLFAFLQ TLELVSHERRGRTGITNA*VSNS PRRELGFHVL*R*QFLLFLFSH RLRSPAGFT*WIPHRGCRWSC PVLRLHALAFLSPWVVDGTGRR GAGGGARRGGSGHTGAHG VG GRLRHGRLQVPSPLRARS PFLLS CTLSCQLDSPCLTCSQGHQYKY QHSDKGKRLTIVTKSFDFIPS
19990	50358	B	20106	1	531	
19991	50359	C	20107	99	323	
19992	50360	A	20108	305	658	
19993	50361	B	20109	79	936	

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19994	50362	A	20110	381	1169	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPPAPRRPVST TQGLRSASARHGTGRQLHLQP WCGIHWVKLAGLLSLVGSQHL RGQGSRAAAALTHMHS/PHAC THAHTRAELRLPPPRPLPPPL SPPPLRLCCLRSLFPCPLTESAA KAGSKKFHSVQEIPSPAVCELG VGTVLHIDPEKWRAGRENVET GGKRTGSGKDSTGRGWGQTD YGLGKKERTEEASRSCICLVCV SMRRDALCGQSVGSHFCQWSL
19995	50363	A	20111	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRALAHALNDMIKE FISMGSVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
19996	50364	A	20112	2	1844	
19997	50365	A	20113	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRRLDLLTAESGGTFLFLEE KCCCVVNQSGIITEKVKEIQGRI
19998	50366	A	20114	1	1338	
19999	50367	B	20115	1	4935	
20000	50368	A	20116	3	421	
20001	50369	C	20117	33	571	
20002	50370	A	20118	3	323	
20003	50371	A	20119	146	809	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVKADS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPI GVQKPNGQWKLVDLRIINEAI VPLYPAVPNPYTLLSQIPEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQLTWTVPQG FRNSPHLFGQALAQDLSQFSYL NTLVLRYLDDLLLAHLETCH
20004	50372	A	20120	3	1147	
20005	50373	A	20121	2	1658	

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20006	50374	A	20122	2	211	MGIYDFSYPFGCCLKSRRKSS RGSQE*LALSPGFSGSFGSIQDL TQV*CIQDSTPATLTA VGVDKM
20007	50375	B	20123	86	586	
20008	50376	A	20124	66	433	SSSRTEGARGKRQPMSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTLLGRGILAKAGAIH HAVLVTAAL
20009	50377	A	20125	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGR DILAKAGAIHLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL
20010	50378	A	20126	260	392	VEVVILPMPVPNLPSIPARITKG RMGTLLLRGLGTT*LYKSCSV
20011	50379	A	20127	1	1740	
20012	50380	A	20128	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLFSLSLRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLNQTLPNERS ATITAAREFGDLWYISQVVA AGLVSEAVKIIQGALTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGPVRLRLRTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
20013	50381	A	20129	1	6530	MWGSDRLAGAGGGGA AVTVA FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHVSLEQHLLDQI RIVFPKAI FVPVWDQQTYIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSQSEKKQETSWG LTEINAFKNMQSKVVPL
20014	50382	B	20130	1231	2065	
20015	50383	A	20131	68	372	
20016	50384	A	20132	1	1461	

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20017	50385	A	20133	1	806	AVWCTHCCAPTPSGPVLP HSAA MSFLKSFPPPGPAEGLLRQQPD TEAVLNGKGLGTGTLYIAESRL SWLDGSGLGFSLEYPTISLHALS RDRSDCLGEHLYVMVNAKFEE ESKEPVADDEEEDSDDDVEPITE FRFVPSDKSAF*FPCSVEAMFTA MCECQALHPDPEDESDDDYDG EEYDVEAHEQGQGDIPTFYTYE EGLSHLTAEG\QATLERLEGML SQ\SVSS\QYNMAG\VRT\EDSIR DY\EDGDGRLDTP\TVCLGQF\ EDADV
20018	50386	A	20134	225	420	RLLGDVCGRLRPRGHEEQRP GPGARSHSRSGPRMGRDCAGA VPRVTPK*SACAAGGRGGPAT
20019	50387	A	20135	1	687	
20020	50388	A	20136	1	2979	MLRRKKQEDWAAKGSSHACG QIPEEREKGFVGNVAVANLGLD LGSLSARRFRVVGASRRFFEV NRETGEMFVNDRLDREELCGT LPSCVTVLELVVENPLELFSVEV VIQDINDNNPAFPTQEMKLEISE AVAPGTRFPLESAHDPDVGSNS LQTYELSRNEYFALRVQTRDS TKYAELVLERALDREREPSLQL VLTALDGGTPALSASLPIHIKVL DANDNAPVFNQSLYRARVLED APSGTRVVQVLATD
20021	50389	A	20137	2	296	
20022	50390	A	20138	1187	1292	
20023	50391	A	20139	2	3250	LTSRWRPWPRPPTSASSAGWFC ASTGPWTAAPAKAPPSWASWT SRALRSSRPQTSRLWRR*PRSR AATPSSSGRGTCGIRPTSVFSTT RARSTTRPTSG**KTWTL*MTT SQ/RLLHQSTDRLTAEIWKDVE GIVGLEQVSS\RAHAHQVAAPV GVCSGQWDSS/HKESLSRLMAT LSNTNPSFVRCIVPNHEKRAGK LEPRLVLDQLRCNGVLEGIRICR QGFPNRILFQEFRQRYEILTPNA IPKGFMDGKQA
20024	50392	B	20140	1	1816	
20025	50393	A	20141	500	866	QVCLYPGWQHSPGRQRVSG*A HLHTAPLWICQ*SGDCDWHES* GGGM*CVR\FEPPTSSPPSATS GSLLK*KEKTGLSNSPCSTSTSS GGRTPTDRMGKTRRQYPSGA GNSEDKVGFPQVF
20026	50394	A	20142	130	226	

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20027	50395	A	20143	846	1555	GRKTPSQGRRWSSPRVFLPPGG PKPCYTYPLVGEKLLFRVLPLFP HKPSASNLEKVSHCPEGKTF RSSYLVRHQRIHTGEKPSQVPV ECGKGF**ALPT/CTAH/HYGTH TGERPYQCGQCGKSFNQSSSLI VHQRTHTGEKPYQCIVCGKRF NISSQFSAHRRHTGESPYKCA VCGKIFNNSSHFAHRKTHTE KPYRCSHCERGFTKNSALTRHQ TVHMKAVLSSSQEGRDAL
20028	50396	A	20144	93	764	AQERKALKSTPSHSSFSR/WLSR IILKNGSSSSSSSSSSSSSSSLRE RERKSCENVNITRNR/LTAETI ADTIDTSNGSVFLIWTER*EWN\ WLPKPWHQYQLQARASLSEEIL NNRWEQDPEAFRQDPEDQARS/ QWLPRGGSAPV\KQRLLLHHDS VPDHAFLRTRAAGQDLPWETV RRPPDNPD LAPADFSLPCLGK LLAERRCFSLQRRVPWPENQP PHRQ
20029	50397	A	20145	1	433	
20030	50398	C	20146	312	443	
20031	50399	A	20147	1	94	
20032	50400	A	20148	2	122	DLLCPQMG*GWKLTALSLQCS LQDGIERSRAKASQCCLSI
20033	50401	C	20149	25	328	
20034	50402	C	20150	157	309	
20035	50403	B	20151	33	2996	
20036	50404	C	20152	167	274	
20037	50405	A	20153	3	130	AGAVQFQALGVPNKDTKSLEL HQKPKPR*GQDDNHRMSPVYV
20038	50406	A	20154	2	453	
20039	50407	A	20155	1	1317	
20040	50408	A	20156	1	1350	

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20041	50409	A	20157	970	2559	FPLAYSLLFPP/CSRLSRELLEVV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKGKGKKRRGRSTK KRRRRGRKEGEEDQNPPCPRLS RELLAEKEPEVLQDSLDRWYST PSVYLGLTDPCQPCRSFYVLE QQRVGLAVDMDEIEKYQEVEE DQDPSCPR*L*AITDA*FCVDT WRCQVQGKQECVQFHVFNEG* ITPTDIAVGFHCSRCLGFHFLLP LSFTHLL*VDHTSKAVWQLHGI LSKFMENY*AHSFHDHCSLCVP RALTQSVL*PLHQCVTRPIR*AH FLLSLSLPLPVFLFHSFLPGPGLS QHKGNNSLPH*WICPFSF*TVPY VSHEI*LGLCGF*FPLAYSLLFPT /CSRLSRELLDEKEPEVLQDSLDR RCYSTPSGYLELPDLGQPYSSA VYSLEEQYLGLALDVEDRIKKD QEEEDQGPCCPRLSRELLEVV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKGKGKKRRGR
20042	50410	A	20158	2790	5320	LHLFCHKRQHGGISRALGSSKK PEMNILEISETLRPQLAEKKQQF RSLKEKCFLTQLAGFLANRQKK YKYEECKDLIKFMLRNERQFKE EKLAELKQAEELRQYKVVVH SQERELNQLREKLREGDASRS LYEHLQALLTPDEPDKSQGGDL QEQLAEGCRLAQHLVQKLSPE NDEDEDEDVQVEEAKEVLESS APREVQKAESKVPEDSLEECA ITCSNSHGPCDSNQPHKNITF EEDEVNSTLVVDRE
20043	50411	A	20159	394	3251	GRRVCLFSEDEECKDLIKFMLR NERQFKEEKLAELKQAEELR QYKVLVHAQERELTQLREKL EGRDASRSLNEHLQALLTPDEP DKSQGGDLQEQLAEGCRLTQH LVQKLSPENDNDDEGVVS/QVE VAEKV/QKSSAPREMQKAEKE VPEDSLEECAITCSNSHGPDYDSN QPHKKTKITFEEDKVDSTLIGSS SHVEWEDAVHIIPENESDDEEE EEKGPVSPRNLQSEEEEEV/PQT PWHE*LSHLSIL

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20044	50412	A	20160	245	641	ILSVLIAVLCVVGKIPLKEPLCP AAGSAAEACVGGQMPVIQVPC SQQRPSMCWPRNACQSSRAL GGDESYVPKNRKSFTKHPVSSC /PSPSLGWGRG*R/PGGPGRSPG LALGFPSFSGPAGFGQGTSSPRF
20045	50413	A	20161	7	194	RPLVESRGIPRSPAASFSTACPR NTASIPSAPSWWETAWTQTSS* APPVA*RPS*PSPESPL
20046	50414	A	20162	232	509	MGVLMHRRCTKAPAWAVATY EAPLHCQQLLGVVGVLAGDPS LLDLGGIHQQPQGLPITVLHQA EEADLVLLRAVTDAAALPVEQ HRP*GAPGLLPPPDGGQ*SGDP AAAGGYLQGPRGLGPQGHPP HPGAAGSAGEPRKWLPPRRGL WCSACA*GPPSTGPGEQRGPGD SG*FISASTSASRATSACRSFIT SQTEPPTWPSLARPOSSGLARPP APGRTAAGR**TLPPGK
20047	50415	A	20163	3	859	SLGGNKSRRTRCCSGSRCRCR DKSAAVSGALWRGCRESRAP PPAPQTIPRAWPSPTAVLTHPLL AGPSRWGSSCTGAAPKPPPGRG PLRGSPALPAAPGCGGCPGWGP KPLGPWRYPPAAAGSPDHCPPS GGGSRPGAPQGGNRCRSARRT APPSCGCSEVGSL*WSPRSGPRP PGWFGWAGACGGSGGSFAASA ALAWEGPEQSQEALQPQSPQRP APAAAAAGAGPRLSSPRRRAW SSPG*/HGIPWPTHASAALPAAG HRGSFSGILP*RAGKRSAMLST
20048	50416	B	20164	179	438	
20049	50417	A	20165	1	930	MESPWRQWRLRKVARSGGGR LSNKRKLHLKKKKKGERGGGG AEREKAAAAVAPGCKAGAGN AKKFVQNGPGTKESSASQVPTG PSAAGLLEFARGPLQTLFAWVS AAVSAEPRIFMIRECCCLIVPLE VLSQRSTWPCEFLISDCCASNQ QDSMGVGPSEPGAGYNLLVRH FLSPSEKCSIRVGVARFSRVLPP PLLGISAARAAGGAARQAAQL REGSRCPRLTDIPHAPSTPPEQG HSAEGAAKEPKRRSARLSAKP APAKVEAK/PKKAADKSSD KQVQTKGKRGAKGQAEVAN QETKEHLPVAV
20050	50418	A	20166	199	419	

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20051	50419	B	20167	969	1313	
20052	50420	C	20168	481	738	
20053	50421	B	20169	56	3476	
20054	50422	A	20170	1	2679	
20055	50423	A	20171	1	1467	
20056	50424	A	20172	208	379	NPCKKGVLIQF*LKIHKRQFIC ADLEFVISE*CTRYPIVAFNWCK PSLLRRSTPVK
20057	50425	A	20173	1	921	
20058	50426	A	20174	197	355	
20059	50427	A	20175	1	3180	
20060	50428	A	20176	1	1309	
20061	50429	A	20177	1	2295	MFYNDVKKQQQMAALTKEKD QLSQSIVMYKSLFEASQQLLNE MKCQVEEARLKEAQLRNLKI HNIDIPTTQQVPHIEALLKRKLS EQEELKKKPRRSCTLPNYTKGS GDVLGKIAHLAQIEDDRAAMVI SWHLASDMDCVVTLTDDAARR IYDETQGRQQVLPLDSIYKKTL PDWKRSPLHFRNGKLYFKPIGD PVFARDLLTFPDNVEHCETVFG MLLGDTIILDNLDAANHRYKEV VKITHCPTLLTRDGDR
20062	50430	A	20178	3	2550	
20063	50431	A	20179	256	3680	NRGLLFCFLFLHLHLKEHERHL ATVYVFPILSCTIYRSVLLTSSQ THYTHVGDREAQAALKLGRWS HPRTPNVAGAPGPPEGAGGGD AVTSQSALLTFSRTRFASGAHA GAHPVLLRNEEEKGAPALVAPI FSAEGPTCSLWWTLRPASTAGL KLPAASTRPSQRGLTADGGGP GGASVGTEEDGGGVGHRTVYL FDRREKESELGDRPLQVGERSD YAGFRAYETVKDGVTLYLLQS VNQLLLTATKERIDF
20064	50432	A	20180	8	267	RGEMPGERLKAEVFLPPSPLSPT QVVGPLHRVWS*IGNASSQRGE AQVRS*VSFSLRLEDSTPWIPGT RALRGCWLWRDFQTLQSG

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20065	50433	A	20181	1	3692	MNPIREMQVSGIALKGTMKGW TELPKSPVWTQGNKGRNYFTN LALSLLFEDDTKLNPYAGGDAI RVRISVGPFPKGERFTVPGLASEC GKNSFLRFPSNSRRKQLCGRVH GSFLWFSMMSQSMGGDNLSSL DTNEAEIEPENMREKFFRSLAR LLENKSNNTKIFSKAKYCQLIK EVKEAKAKAKKESVDYRRLAR FDVILVQGNELIEAVNGETDK IRYYLHSEDLFDILHNTHLSIGH GGRTRMEKELQAKYK
20066	50434	A	20182	24	131	PVHKRWS*NDECYRHCTV***Q PGSEENNPALNR
20067	50435	C	20183	99	281	
20068	50436	A	20184	1	4200	MVILKDFMKFEMNSEEGDFLR TCDFFFLRHLVAVKQLAHVKV DRFFPRRQSLAESRTAGIRLQTN VQKMVSSFTTSDRKQTSPSSYS VSFIPEFHFLGPPTHCPQTAVSQ CDLLFQLHSPAELFPARTLPG GPRSPHLRVPAAPLQHDPRH TGPPPLPPTANRGATPPLPLGPGA LERSGRLGELNSASSFRLRRDN PQSPAARPRGSHGLAGIEGERT LINYYCQERYFHHVLLVASEGI KRYGSDPVFRFY
20069	50437	A	20185	1	1464	
20070	50438	A	20186	335	855	RIASMPRLPPRTQGRGSARLPSR ARPGLHWHHRHTMLPPKPRRW R/RALGPAEAGMLEKLEFEDEG ECAPPAAGPALPRPGRPTGTR GDPAPHLRRCPTASCVLKPRG RGGNRGGDAGAGELGLRGPCD LPSQNFLCFLVDVLKNGLLALQ LFSSNPTASCAESLPMLRTPVI

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20071	50439	A	20187	2	1160	SARPAASPPAGERASQLMLIAV LLLPLRRRWRRALGPAEAGML EKLEFEDEAVEDSESGVYMRF MRSHKCYDIVPTSSKLVVFDTT LQVKKAFFALVANGVRAAPLW ESKKQSFVGMILTITDFINILHR YYKSPMVQI/YMELEDHKNLET WRELYLQ\ETFKPLVNI\SPD\AS LFGWLYTSLIKNKIHRLPVIDPIS GNALYILTHKRILKFLQLFMSD MPKPAF\MKQNLDELGIGTYHN IAFIHPDTPHAKALNIFV/EKDRIS ALP/VLWDESGKSW*IFNSPNLN VN*ILACLEENIPNNLR*STVT\Q A\LQHRISQYFEGVVKCQLSWKF LETHRWTRIVRAEGPSGLVV\N NEADSIVGIISLSDIL\QALIL\TP AGAKQKETETE
20072	50440	A	20188	58	205	
20073	50441	A	20189	347	1581	NPSPC/WAVFFQKDAITSKIQT LSMLHLYN**/SSPSKENTRTVE KLYKCSVDIRKIRRFKKGVL RR*KPYVERNCRIFYQELGAR* DAVASILERCPEAIV*SPTAVN TQRKLWQLVCKNEEELIKLIEQ FPESFFTIDQENQKLN\QFFQ DVGTKKCGH\CRLLTAAPNCFS\N NPVEKNKQM\VEFFQESYLDL GGSEANMKSFGLLKLFKPKPFY FV*ISPTAIKETLEFLQEPRFPPA LKFLQLPIPN\SKGFLFQLCPKKY TE*YFLL*KCLLNAQIFMDP/V N*VLKWPCPFILFLFPVLEERM QGLLREGISIAQIR\ETPMVLELT PQIVQYRIRKLNSSGYRIKDGH ANLNGSKKEFEANFGKIQAKK ALQNLRLSLNYYDELTVGEC GNRKGRGTNVNTTL
20074	50442	A	20190	3	455	
20075	50443	C	20191	72	218	
20076	50444	A	20192	3	452	LGILLVDDFVNVLSLAVYAED SEPESDGEAGIEAVGSAAEEKG GLVSDAYGEDDFSRLGGDEDG YEEEEEDENSRSQSEDDSET EADDPKE\NSAQ*QRHPGLSKL MAQLVGLRGQKNHILNMIRDV TQQPQLSLAAHTPHTPFHLQ
20077	50445	A	20193	1	334	
20078	50446	A	20194	1	687	

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20079	50447	A	20195	1	1280	RPGCGNKMAGKKNVLSSLAAY A*ISEPESDGEAGIEAVGSAAD EKGGLVSDAYGEDDFSRLGGD EDGYEEEEEDENSQRQSEDDDDSET EKPEADDPKDNTEAEKRDPQEL VASFSERVNRMSPPDEIKIPPEPP G\RCNSNHLQDKIQKLYERKIKE GMDMNYIIQRKK\VEFRNPSIYRE /RLIQFC\AIDELGTNYPKDMFD PHGWSYEDSYEALAKAQKIEM GQIGKRPKKERNQKFEFCDGAP KKGT/TRTNATSTTTTTCQAQL FADCRRRGKRQVGIRAIPTATK KRTPPPKPPNTLTATLPS/V VVTVTHPSASGSKDPPVISCCG APIVKERPQVTLRGPPGLER DRAAPVTHCPVGGAHFVYFRT GTYSRCHLRGASVWHSRWKD RQHGSQALWTGSHVAPPGVCR LLKVPYSYLLASQKK
20080	50448	A	20196	1	542	MAYSAPKSCTEGHESPH/HHT AGHSGWHGG*ALRQRGHSCPK EGTRGHPQTLAP/HHQCPQHAA GLPR/HNQLLD/WFRHHHHRH WHHHHHHHQ*FPECQPSTSHQ ANPHHRPDLHDRQAPDSGYEG VSPKRVAEANFSLGSAPQAAQ GRSHGQSPGVHGGFFSHGSPAAS SDIMKRLPPPGLF
20081	50449	A	20197	45	171	RKTRERIGHDVICNLL*C**SS/C GCGLS/CICS*IRHSKSSRKA
20082	50450	A	20198	277	467	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGR
20083	50451	A	20199	1	1080	
20084	50452	A	20200	34	119	
20085	50453	A	20201	1798	1894	
20086	50454	A	20202	363	778	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGRSGGS GGCCSPGGCREGGRGNTKPAT RCEVICGGSGGGGARPAAPPG GPDASRVCWFSLNTSIVFFSCPF
20087	50455	A	20203	1	360	
20088	50456	B	20204	1	3681	
20089	50457	A	20205	1	293	
20090	50458	B	20206	38	282	

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20091	50459	A	20207	1	1124	VDTVKRLLIKKLPPVLAIQLKRF DYDWERECAlKFNDYFEFREL DMEPYTVAGVAKLEGDNVNPE SQLIQQSEQSESETAGSTKYRLV GVLVHSGQASGGHYYSYIIQRN GGDGERNRWYKFDDGDVTEC KMDDDEEMKNQCFGGGEYMGE VFDHMMKRMSYRRQKRWWN AYILFYERMDTIDQDDELIRYIS ELAITTRPHQIIMPSAIERSVRKQ NVQFMHNRMQYSMEYFQFMK KLLTCNGVYLNPPPGVAEKTQL LKLSVPATFMLVSLDEGPGPIK YQYAE LGKLYSVVSQLIRCCNV SSRMQSSINDAETA FNKI QHRF MLKILNKQIEETYIKITRAIYD KPTANIILNGQM LEALPLRNRT
20092	50460	A	20208	1	1053	
20093	50461	A	20209	1	7785	MTATTRGSPVGGNDNQGPAPD GQSQPPLQQNQTSSPDSSNENS PATPPDEQGGQDAPPQLEDEEP AFPHTDLAKLDDMINRPRWV PVL PKGELEV LLEAAIDLSKKG LDVKSEACQRF RDGLTISFTKI LTDEAVSGWKFEIHVSLAFDFK GSDLHSDACEWEERCINNTHR LVELWCGPSCPQDWFPLLELL AMALNPHCKFHIYNGTRPCESV SSSVQLPEDEL FARS PDPRSPKG WLVDLLNKFGTLN
20094	50462	A	20210	1201	9141	ADKIAKICPVSSMTATTRGSPV GGNDNQGPAPDGQSQPPLQQN QTSSPDSSNENSPATPPDEQGG GDAPPQLEDEEP AFPHTDLAKL DDMINRPRWVVPVLPKGELEV KLEANIDLSKKGLDVKSEACQR FFRDGLTISFTKILTDEAVSGWK FEIHRCLVELCVAKLSQDWFPL LELLAMALNPHCKFHIYNGTRP CESVSSSVQLPEDEL FARS PDPR SPKGWLVDLLNKFGTLNGFQIL HDRFINGSALNVQ
20095	50463	A	20211	2	710	

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20096	50464	A	20212	1	1703	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFD SGVDFVRRR SSGLWGPQPPLFPVKNYTEDPV AFKDVAVNFTQEEWALLDISQ KNLYREVMLETFWNLTSIGKK WKDQNI EYEQNPRRNFRSVT EEKVNEIKEDSHCGETFTPVPD DRLNFQKKKASPEVKSCDSFVC EVGLGNSSSNMNI RGTGHKA CECQEYGPKPWKSQQPKKAFR YHPSLRTQERDHTGKKPYACK ECGKNIIYHSSIQRH MVVHSGD GPYKCKFCGKA FHCLSLYLIHE RTH TGEKPYECKQCGKSFSYSA THRIHERTHIG EKP YECQECGK AFHSPRSCHRHERSHMGEKAY QCKECKGAFMCPRYVRRHERT HSRKKLYECKQCGKALSSLTSF QTHIRMHSGERP YECKTCGKG FYSAKSFQRHEKTHSGEKPYKC KQCGKAFT RSGSFRYHERTHTG EKP YECKQCGKA FR SAPNLQL HGRTH TGEKPYQCKECKGA FR SASQLRIHRR IHTGEKPYECKK CGKA FRYVQNFRFHERTQTHK
20097	50465	A	20213	3	2413	

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20098	50466	A	20214	1	2124	MGKNTPMIQLSPGPFFHNSEYR FPVLSVSAFLLYTCEMFQDPVA FEDVAVIFTQEEWALLDISQRK LYREVMLETFRNLTSLGKRWK DQNIIEYEHQNPRRNFRSLIEEK VNEIKDDSHCGETFTVPDDRLL NFQEKKASPEVKSCESFVCGEV GLGNSSFNMNIRGDIGHKAYEY QEYGPCKCKCQPKKAFRYRPS FRTQERDHTGEKPNACKVCGK TFISHSSVRRHVMVHSGDGPY KCKFCGKAFFHCLRLYLIERIH TGEKPCECKQCGKSFSYSATHR IHKRTHHTGEKPYEYQECGKAFFH SPRSYRRHERIHMGEKAYQCKE CGKAFTCPRYVRIHERTHSRKN LYECKQCGKALSSLSFQTHVR LHSGERPYECKICGKDFCSVNS FQRHEKIHSGEKPYPCKQCGK ALPHSSSLRYHVRTHTGEKPYE CKQCGKATHNGEKPYPACKECG KPFQSAQNLRHERTQTHIMHS VERPYKCKICGRGFYSKSFQI HEKSYTGEKPYECKQCGKAFV SFTSFRYHERTHTGENPYECKQ FGKAFRSVKNLRFHKRTHHTGE K/PL*IHEKTHHTGRKHYECKQC GKAFTSSSSFYHERTH/S/GEK PYQCKQCAKAFISSTSFQYHER THMGEKPYECMPGKAFISSSS LQYHERTHTGEKPYEYKQCGK AFRSASHLQMHGRTHHTGEKPY
20099	50467	A	20215	23	265	
20100	50468	A	20216	40	470	
20101	50469	A	20217	235	392	

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20102	50470	A	20218	7	1439	EGADKMATSVGHRCLGLLHGV APWRSSLHPCEMTALSQSLQPL RKLPFRAFRTDARKIHTAPART MFLLRPLPILLVTGGGYAGYRQ YEKYRERELEKLGLEIPPKLAW SLGSVALYKSVPTRLL\SRW G RLNQVGA AHTGLRRPRFTSL\YI WTFGVNMKEARVEDLHHYRN LSEFFRRKLKPQARPVCGLHS/V GEA*PFPPAGNRTFSCLPSTAPL VSSVSGRGRMTRGGGGCCLGG GDPALPGSKPLLPFQISPSDGRIL NFGQVKNCEVEQVKGV TYSLE SFLGPRMCTEDLPFPPAASCD SF KNQLVTREGNELYHCVIYLAPG DYHCFHSPTDWTVSHRRHFPGS LMSVNP GMARWIKELFCHNER VVL TGDWKHGFFSLTAVGAT NWGSTRIYFDRDRNTNNPRHSK GSYNDFS FVTHTNREGVPMRK GEHLGEFNLGSTIVLIFEAPKDF NFQLKTGQKIRFGEALGSL
20103	50471	A	20219	170	1144	ARTRRLAPSPGCRRGPAVKKM RHEELTKTFQGP AVVCGTPTS HVYMFKN GSGDSGSSEESH RVVLRPRVKERHKSGVHQPPQ AGAGDVVLLQRELAQEDSLNK LALQYGCKHSE*LTMA/NVADI KKVNNFIREQDLYALKSVKIPV RNHGILMETHKELKPLLSPSSET TVTVELPEADRAGAGTGAQAG QLMGFFKGIDQDIERAVQSEIFL HESYCMDTSHQPLL PAPPKTPM DGADCGIQW WNAV FIMLLIGIV LPVFYLVYFKIQASGETPNSLNT TVIPNGSMAMGTVP GQAPRLA VAVPAVTSADSQFSQTTQAGS
20104	50472	A	20220	1	626	RYSSTLTRPWTQTPRTRASPHS\ PVAGALTARSPPRPTKPSRAG VHASRRPPQDLGPIGKGSATK GPRHQ RKHHESITPPSRSP TKEA PPGLNDDAQIPASQESVAPLWIP VTAP* AHRVLSSCEFGA AFESA GEEEGEGEV SASQA AVQA\GTQ TRR*GATSAPCGPVPEGASVPA L*AAGAAGRAEAERPPCVPAQ AVGLSGQPLS

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20105	50473	A	20221	2492	4619	WHSWRQQGWGAHLGSSATGP GC*QGRPTCVMRPAGT/TRPGE APIGSGTGAVEMPAREPGDEKP PAPFP*QRHFVPRAHLLFGTAL RSLPELMRRAVRNPRHLSAEE SLLFSLPGSPWKGWSSWNGQA PPLAPPAQGPLLVPVLSAGPGV AGERTVPSSPRWWRPHLFLAPT APSPPPCPTVSAPGHLLGVAQK PDCHPPASQRPRRHPLPFLPGEA FAE/SAANS*ISSISASFTFS*SSS WSLD\STKSSLPPLHLPTLTSRV PGKFSALLSQFSASFSSHGLPSE SVAIGTCST/PGERAHSRQTCGP GSSAQS*QEEGQCPQCRDSAG TCGRPRCSRHPAGHAGSEPRPL QRRSLHCSHTG*GAGIGHKART CGRKAPPRCPSETGHHSVGVY* PWRQSQQPAARGRARCGRPCP GACPAMAPQTQSEEGRRAPR/T NPAVPSEPARP/STAGPRAGASV PPSPGPRGPAGPGAPS\AGRARRR APGATACSGGAVESG*PSL/GSA LSAQVAPEAARAPA*GPGQAA GAREEGPAWPCRSPP\GPGPSQC AALPQK/GSALRSGGRRTLGLPL LSHPSFKILLAGSGGVLDNSTSS ERSRATRSSICRPVVSESWTNN NGGDTGG\SSCDFYSPGPADGL SQGHSSDHTNLLLVLSSQKRHF PA*ALVQPHAPSPPTGTPEWPP AGPRTVPRPPSASSVAPSCWWV
20106	50474	A	20222	103	538	PQLSLPLLSIRDRRRPSKCANLT LTLTVAAARHGLQSLGKVGISRR MPPPANLPSLKAENKGNPNV NIVPKDGTGWASKQEQHEEEK TPEVPPAQKPGVAAPPEVAPA PKSWASNKQGGQGDGIQVK*Q FQQEFP SLQAAGDQK
20107	50475	C	20223	1	569	
20108	50476	A	20224	1	1095	

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20109	50477	A	20225	1	1970	MWKGFTILDSFKNISDSWEDVR ISTLTGVWKKLIVTLMDDLEEF KTSVEEITLTQRKLFFVMESPV GPISPPQPPSVSAWNKPLTSFGS APSEGAKNQGQESGLEIGTDTIQ FGAPASNGNENEVVPVLSEKSA DKIPEPKEQRQKQPRAGPIKAQ KLPDLSPVDNK\EHKPGPIGKER SLKNRKVKDAQQVEPEGQKEP SPATVRSTDPVTTKETKAVSEM STEIGTMISVSSAEYGTNAKESV TDYTPSSSLPNTVATNNTKME DTLVNNMESARKAWENSPNVR EKGSPVTSTAPPIATGVSSASG PSTANYNSFSSASMPQIPVASVT PTASLSGAGTYTTSSLSTKSTTT SDPPNICKVKPQQLQTSSLPSAS HFSQLSCMPSLIAQQQQNPQVY VSQSAA/ATLTTACLS*WSTAQI PAFYMDTSHLFNTQHARLAPPS LAQQQGFQPGLS\RSQPAFMQS SLSQPSVVLSGTAIHNFPTVQH QELAKAQSLAFQQTSNTQPIPI LYEHQLGQASGLGGSQGLIDTHL LQVTVPLPASQLSLPNFGSTGQ PLIALPQTLQPPLQHTTPQAQA QSLSRPAQVSQPFRGLIPAGTQ HSMIATTGKMSEMEKAFGSGI DIKPGTPPIAGRSTTPTSSP\SGL LLQVRTASPAK
20110	50478	A	20226	260	8485	VSTEMSEKSGQSTKAKDGKKY ATLSLFNTSKGKSLETQKTTVA ARHGLQSLGKVGISR\RMPPPC* PPKFLKPE*QRANDPNVNIVPK DGTGWASKQEQHEEEK\TPEVP PA\QPKPGVAAPPEVAPAPKSW ASNKQGGQGDGIQVNSQFQQE FPSLQAAVDQEKK\EKETNDDN YGP*PSLRPPNVACWRDGGKA AGSPSSSDQDEKLPGQDESTAG TSEQNDILKVVEKRIACGPPQA KLNGQQAALASQYR
20111	50479	A	20227	330	485	RQGDRVSLCCLGRS*TPGLK*F SHLDLLNCWDYRCETVHLAEI AQVSEKQI
20112	50480	C	20228	1189	1413	

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20113	50481	A	20229	1	407	MPFSLADCDSQHCLLFAVVDL GTAKATSCMSDTDFYSSSGNS ANLKEGGKSPAPGPGKGRGA QKRKYS GPWNRKESCKKHEGV KGAEGRGGTVASVRES/REPRF KMAAFSMHPC*RLSRHRGHLA QRCFCFCR
20114	50482	A	20230	1	408	HMDLAQPSQPVDELELSVLERQ PEENTPLNGADEVFPSLDEEVPP AEANKESPWSSCNKNVVGRCK LWMIITSIFLGVITVIIIIGLCLAA VTYVDEDEDENEILELSSNKTFFIM LKIPEECVAEEELPHLLTERL**S L**HLGKWR**SST/GLHLPTTF LLQELQGLSLLASAGGTSSSKE GKTSSAPLRGVFSSGCRSSTESS SSSTGCEGWARSM
20115	50483	C	20231	144	383	
20116	50484	A	20232	1	530	AKDSESRRMLRGYNPQQMSEG HRQKSEFYNRTASESNVYLNSE HYPDHSYKDQAFDTLSLDSSDS METSISACSPDNISASTSNIARI EEMERLLKQAHAEKTRLLESRE REMEAKKRALEEEKRRREILEK RLQEETSQRQKLIEKEVKIRERQ RAQARPLTRYLPVRKEDFDL
20117	50485	B	20233	10	543	
20118	50486	A	20234	370	556	
20119	50487	A	20235	3	3160	TELQQLGQKTADGSPGLKRALI FALNFHSSPPGKDMAAVQRTL MALGSVAVTKDDGCGYRGEPS WFHRKAQQNRRGFSEELRQG QNVIGLQMGSNKGASQAGMTG LSDPTPWT AHLGMYVQGN AKF VSPVRRIVVHEYYNSQTFDYDI ALLQLSIAWPETLKQLIQPICIPP TGQVRVSGEKCWVTGWGRRH EADNKGSLVLQQAEEVELIDQTL CVSTYGIITSRMLCAGIMSGKR DACKKRKLGTERPGTQAAP
20120	50488	A	20236	231	873	KKFRALGSVGPGRASGVQVA DEV\CRIF\YDMKVR\KCS\TPEE DQDKERSAVIFCLSA DKKCIIV E\EG\KEILVGDVGWNP*TDPF\R HFVG\MLP*KKIVRYAFVMDGK LLETGKFQKRKSLMFFFV/WAP EL\APLKK*K*SYCKLQGM AFK KNFQGIKHECQA\NGPEDLNRA\ CIAEKL\GGS LIVAFEGCPCVDH HSVPQIEKLPMFNCYPLAI

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20121	50489	A	20237	915	1255	GHGQKPAGKKKKILAVRSGSEP AGGFQGY/RGGHGTAS/GSPGD DDSPGALWEQSPGPL*AWPGA VSEPMVCAEPVQEQSGPQLPP PRHSRSPSGDSGQPGVPAERRRI MGMAA
20122	50490	A	20238	3	227	LLMDTF/FQIVIYL/GETIAQWR KAGYQDMPEYENFKHLLQAPL DDAQEILQARFMPVVKLRIQPG NATVSDCVQNV
20123	50491	A	20239	1	642	RRDTIARNWANVQSQVRHIEQ AFDQEAAA\VLMARLG\VFEPK SKEGPDVLRWLDRQLIRLCQKF GQYTKEDPTSFRLSDSFSLYPQS MFHLRRSPFLQVFNNSPDESSY YRHHFARQDLTQSLIMIPIILYS YSFHGPPEPVLLDSSRFMPRI NTEHGGSQARFLLSKVNPSQTH NNLYAWGQETGAPILTDDVSL QVFM DHLKKLAVSSAC
20124	50492	B	20240	20	277	
20125	50493	A	20241	1	3030	

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20126	50494	A	20242	1	2677	MAEVKVKVQPPDADPVEIENRI IELCHQFPHGITDQVIQNEMPHI EAQQRVAIVNRLLSMGQLDLL RSNTGLLYRIKDSQNAGKMKG SDNQEKLVYQIIEDAGNKGIWS RDIRYKSNLPLTEINKILKNLES KKLIKAVKSVALGIPAGCSVCP KCGASNHLSARFCGSCGICVKS LVKLSLDRSLALAAEEPFPFSES LNIPLPRSDVGTKRDIGTQTVGL FYPSGKLLAKKEQELASQKQR QEKMSDHKPLLLTAISPGRENIG ENLQVIGLVKNFLSNIPQAPAT QAKMGKWDPRQGAQSPLIFL YVVDTCLEEDDLQALKESLQM SLSLLPPDALVGLITFGRMVQV HELSCGISKSYVFRGTDLTA KQIQDMLGLTKPAMPMQQARP AQPQEHFPAASSRFLQPVHKID MNLTDLLGELQRDPWPVTQGK RPLRSTGVALSIAVGLLEGTFP NTGARIMLFTGGPPTQGPGMV VGDELKIPARSWHDIKEDNARF MKKATKHYEMLANRTAANGH CIDIYACALDQTGLLEMKCCAN LTGGYMVMGDSFNLSLFKQTF QRIFTKDFNGDFRMAFGATLDV KRVQVGERGREAKNKLWTVH AHSSWRALNTGLRSFDFIPGTV REPVKILGRRLTSDLQIRNSPLE AAVQGGVSKTVSTVSLAHAMR AHPHLLMEDLRILVIDLDPQSS
20127	50495	B	20243	453	3318	
20128	50496	A	20244	2	1367	

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20129	50497	A	20245	1	1459	MLEGKYGPPPGSFQTRRTALAR SHTNTSPSTSPAANRLNALGIGE RDASPSWLGETQDQVKRQPGL SGSRKIPRCAMTYGSLGQQAA QAAGVHAPNVFVASLLCQFLQ FVYRNSMGWTGGADFSYSCQE GETKELWSSGHHLKACRAVAF SEDGQSEYWGRQPAMWWKGA VSSTMTLGTFSPELITVSKDKA.I HVL DVEQQLERRVSKAHGAP INSLLLVDENVLATGDDTGGIC LWDQRKEGPLMDMRQHEEYIA DMALDPAKKLLLTATYCSTLY SGDGCLGIFNIKRRRFELLSEPQ SGDLTSVTLMKVQLVMWGKK VACGSSEGTIYLFNWNGFGATS DRFALRAESIDCMVPVTESLLC TGSTDGVIRAVNILPNRVVGSV GQHIGEPVEELALSHCGRFLAS SGHDQRLKFWDMAQLASCGG G*LPSAQKKGRTTAGSEQQDLE HR*LLRRTAAGRSLSHGSKKR RRLGMTVTEGMN
20130	50498	A	20246	221	847	RHIFSFFSGHVLAVSLGKFIFEST LFPSEARAARRRRPVQQWPRFK ARDLRGKKKEELLKQLD\DLKV EAV\SQLRVAKVTGR\AASKLS KIR\VVVRKSIARVLTVINQTQKE NLRKFYKGKKYKPL\DLR*GR HRAMRPPASNQARRENLEGPK EAGSGKGAAFTRCGK*RGSR LRGRLCQ*KHKENLTKKQQR KERLYPLRKYAVKA
20131	50499	A	20247	1	415	FFFFFECG*SFTNSFSVTIHRRIH NGEKSYECSDCGKSFNVLSSVK KHMRTHTGKKPYECNYCGKSF TSNSYLSVHTRMHN/TANVNSI TVGKAFIDLSCLR*HEQTLTRC MNHLLLCNKLPKILWLQTKTL VISKFL

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20132	50500	A	20248	196	1768	RRSVLLPGCPVAVGVGTGWRLSS CPQLPLCLPCSQPLSEKDTQRA ESWLMSS*KAG/YKGLVTFEDV AVEFTQEEWALLDPAQRTL YR DVMLENCRNLASLGNQVDKPR LISQLEQEDKVMTEERGILSGTC PDVENPFAKAGLTPKLHVFRKE QSRNMKMERNHLGATLNECN QCFKVFSTKSSLTRHRKYSILGE RPYGCSECGKSYSSRSYLAVHK RIHNGVKPYECNNCGKTFSSRS YLTVHKRIHNGEKPYDCSYCG KTFSNS*YLRPHLRIHTGEKPYK CNQCFREFRNQSIFTRHKRVHT GEGHYVCNQCGKAFGTRSSLSS HYSIHTGEYPYECHDCGRTFR RSNLTQHIRTHTGEKPYTCNEC GKSFTNSFCLTIHRRIHNGEKSY ECSDCGKSFNVLSSVKKHMRT HTGKKPYECNYCGKSFTIGQGD GFEIVLPPPQLQQLIKAFFLGNT HCLSDRLSVQCIHYSIRYLHLNI HYLHYSIHYLHYSICYLHYSIM DPPQQSPHPLQHPLQNPLQ
20133	50501	A	20249	2	408	
20134	50502	A	20250	1	280	
20135	50503	A	20251	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFSSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLLDROGWH RGHAR

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20136	50504	A	20252	1	1762	FRMAAPLVLVLVVAVTVRAAL FRSSLAEFISERVEVVSPLSSWK RVVEGLSLLDLGVSPYSGAVFH ETPLIILFHFLLIDYAEVFMITD ALTAIALYFAIQDFNKVVFKKQ KLLLELDQYAPDVAELIRTPME MRYIPLKAALFYLLNPYILSCV AKSTCAINNTLIAFFILTTIKGKA LKGEYKGS AFLSAIFLALATYQ SLYPLTLFVPGLLYLLQRQYIPV KMKSKAFWFSWEYAMMYVG SLVVIICLSFFLLSSWDFIPAVYG FILSVPDLTPNIGLFWYFFAEM FEHFSLFFVCVFQINVFYTIPLA IKLKEHPIFFMFIQIAVIAIFKSYP TVGDVALYMAFFPVWNHLYRF LRNIFVLTCHIVCSLLFPVLWHL WIYAGSANSNFF*GITLTFNVG QLPHEL FIMVPEGGGPGALMA AIERNVDRAVPGGS AERDPIER STLHILLISDYFYAFLRREYYLT HGLYLTPQGIAP EAMLVLQSRP GWHRASWTLRGLVGPEAGPKL SSPELPAGECLGRRGSSPRVTSS LVPKRDPWLTD SKAYGEELGA PQLGPPPCGSAHQGAPSQTGRR
20137	50505	B	20253	102	406	
20138	50506	B	20254	200	408	
20139	50507	B	20255	347	458	
20140	50508	A	20256	2	430	
20141	50509	A	20257	3	567	
20142	50510	B	20258	1	1317	
20143	50511	A	20259	928	2067	
20144	50512	A	20260	2	4498	VHELQSLSEMLKPEVLSPTVKG KLLTGIKSPRSYTPKPNPVTHVI STGIQKIWIGATVGSTEVSVAV TPDGYADAVRGDRFMMPAERR LPLSFVLDVLEGRAQHPGVLYV QKQCSNLPSELQLLPDLESHV PWASEALVHKHHYENLYCVVS GEKHFLFHPPSDRPFIPYELYTP ATYQLTEEGTFKVVDEEAMEK VSVLFLGSREGEQKPGSEEQA QKIWGV EAAVQRLGMLEAGIL PQEGRFQALAEIADI

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20145	50513	A	20261	3	3137	DTPAWHGDANRTKAALEAARS DYLEFPAAARELCVPLAVPYLD KPPTPLHFYRDWVCPNRPICIRN ALQHWPALQKWSLPYFRATVG STKVSVAVTPDGYADAVERGI RF/M*LPVERRRLPLSFVLDVLEG RAQHPGVLYVQKQCSNLPSELP QLLPDLESHVPWASEALGKMP DAVNFWLGEAV*VTFLHKDHY ENLYCVGSGEKGHFLFHPPSDRP FIPYELYTPATYQLTEEGTFKVV DEEAMEKAEVSRCT
20146	50514	A	20262	164	1236	AQSRRSRDRGQAFSNHHAAEHI TCTPGSGSGSRVSSGQAARRRL SGRAGLWAAVTNPPPHPTWLE VSRSAATARAALCRRSACLLP RTPHLSAMISASRAAAARL/VG AAASRGLRAARHQIRSNQGTV VGIDLGTNSCVA VMKKNVPF KIVRASNGDAW/VEAHGKLYSP SQIGAFV/LMKMKETAD**LFLS SEPPQPGQRAGFLQPSCCGAYY LYPWLRERQSSILWSGGAAAPQ RKSGPLGRSDQPPSPHVVGGF QKRCRHRSSRLPSERLFAASYS SFIRHDKCQPSCSSPSRGAAASR GLRAARHQIRSNQGTVVGIDLG TTNSCVA VMKKNVPFKIVRAS NGDAWVRLMGNCILRVRLHL CEDERDCRLIVALPEGMEEPE FDYQNDMGNSQDLERRRGCAA EPWEEGVGQSLALPLVSLCLKC RWYRSPCTQGQHPATFSGPAEG VISERSMLEHWHEEINQCKAYN EDVFSTMRTNPARISSEAMAPA DIIDHSSQRPDFTSGKMLADEF GTASNIKSRVNAFQSWEPLHLY NKDSNL
20147	50515	A	20263	216	728	

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20148	50516	A	20264	1	2519	MAPSSRSGAGNTSTPGGCARAR APPGNAGVHSGTQTGAVRDTA FISPSSPGLFLSSEPPQPGQRAGF LQPSCCGAYYLYPWLRRERQSSI LWSGGAAAPQRKSGPLGRSDQ PPPSPHVVGGFQKRCRHRIAQL FAVGALVCCLVLLHLSAMISAS RAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRRDY \\AS\\EAIKGAVVGI\\DLGTTNSCV AVMEGNQAK\\VLENAEGAKTT PSVVAFTADGERLGGMPAKRQ AVTNPNTTFYATKRIGRRYDD PEVQKDIKNVPFKIVRASNGDA WVEAHGKLYSPSQIGAFVLMK MKETAENYLGHTAKNAVITVP AYFNDSQRQATKDAGQISGLN VLRVINEPTAAALAYGLDKSED KVIAVYDLGGGTFDISILEIQKG VFEVKSTNGDTFLGGEDFDQAL LRHIVKEFKRETGVDLTKDNM ALQRVREAAEKAKCELSSSVQT DINLPYLTMDSSGPKHLNMKLT RAQFEGIVTDLIRRTIAPCQKA MQDAEVSKSDIGEVLVGGMT RMPKVQQTVDLFGRAPSKAV NPDEAVAIGAAIQGGVLAGDV TDVLLLDVTPSLSLGIETHGAVF SKLINRKTNIPTKKSQVFSTAAD GQTQVEIKVCQGEREMAGDNK LLGQFTLIGIPPAPRGVPQIEVTF DIDANGIVHVSADKDKGTGREQ
20149	50517	A	20265	1	168	LERERRKRSRKELLNFYAWQH RESKMEHLR/QLRKKFEEDKQR IELLRAQRKFRPY

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20150	50518	A	20266	3	1085	ARAGAEPQLPATPALPGGKMV ARSLAGLSSG*PGHPSPPISFPAI PIKFSEKQQASHYLYVRAHGIQ QGTKWREALGW/SRMLTLGF P/PPCS/EESLSCLQSTCGLVQSV ELKFPDLPHPCTSCLAFSVPC*S SRTVSAGHLQGLPRLPSCFPTE GAPSPGLGAGSPGALLFRDLVP DVGRSPQPLTSLSLQGFQVAYV VFQKPSGVSAALAVGPKCQA* GSPVSLAPFSSEWISDYADSVPD PGWRLREVPGAHRMTMGSPSLQ EEAKAKEEEGVPEEGWVKVT RRGRRPVLPRTEAASLRVLERE RRKRSRK\ELL\NFYAWQHSRE/ SKMEHS*GKCARSFEEDKQRIR ACCGPKRKIPDRN
20151	50519	A	20267	2	334	SLQVQPFASLISKAPLSTPRLLIN KEKAGQSDPFLGMIMGLGGGM DFDSKKA/YAELLGWKKELEDL VRREHASIDAQSGAGVPNPSTS ASPKKSPPPAKDEARTTEREKP Q
20152	50520	A	20268	124	407	QSDPFLGMIMGLGGGMDFDSK KAY/RVRPRRGLGQPGMDRVR WERGHEGR*EEQAGASPPGNS DLLLHRRDVAWLGECDQGCLA LAELLGWKVRS
20153	50521	A	20269	193	458	
20154	50522	A	20270	55	1165	RDRAVGDSLKGFSTAPMAEPD PSHPLETQAGKVQEAQSDSDS EGGAAGGEADMDFLRNLSQT LSLG\SKERLLDELTEGVA\R YMQSERCSQSSSCLVGAGISTS AGIPRLFASPSTGLLNLEK*P SFPNPEAIF*DSAIFKKH\PEPFFA LAK\EL\YPGAVSRPTICSHSCGL LERDKGGLLLR/CVKRREH*VT WERIAG\LEQEDLVEAHGTFYT SHCVSASCRHEYPLSWMKEKIF SEVTPKCEDC\QSLVKPD\IVFFG ESLGARFFSCYCSDFLKVDLL L\VMGTSLARDVAWLGECDQGC LALAELLGWKKELEDLVRREH ASIDAQSGAGVPNPSTSASPKK SPPPAKDEARTTEREKPQ

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20155	50523	A	20271	3	357	FGFNGCSKRIIKLQELSDLEERE NEDSMVPLPKQSLKFFCALEVV LPSCDCRSPGIGLVEEPMKVE EGPLSFLMKRRTAQKLAIQKAL SDAFQKLLIVVLG/QDCLDHP*S TSVSVSK
20156	50524	A	20272	696	1123	IPLKMMNFLQSLKSPQLSHQLR L*LPQVEPSLTQQNFPAQTP/V PPMEAEPSPNQQEATVQASEPP KNIELSSQQMVPENIFPPTMENS NQLPEPTEVVVAQLPPRYEVTIP TQQQDQAQLSTLASVTLQPLDL GFIITPESTTEIELSPTMQETPTQ PPKEFVPQPPV/LSRESSEETGPL PVQQETSAESPEPTKDENPSPIQ *EAAFSEISSQGSSWHQT
20157	50525	A	20273	1	727	GIPAADREASLELIKLDISRTFP NLCIFQQGGPYHMLHSILGAY TCYRPDVG YVQGM SFIAAVLIL NLDTADAFIAFSNLLNKPCQMA FFRVDHGLMLTYFAAFEVFFEE NLPKLFAHFKKNNLTPDIYLID WIFTLYSKSLPLDLACRIWDVF CRDGEEFLFRTALGILKLFEDIL TKMDFIHMAQFLTRLPELPAE ELFASIATIQMQSRNKKWAQVL TALQKDSREMEKGSPSLRH
20158	50526	A	20274	3	435	CGGIPKMEESA EYEAARHKRE KRMENINLAGSKRGKEDGKDS EFAAIENLPGFELLSDREKVLCS SLNLS PARYVTVKTIHKDHLQK RQGIP/CQKPPS*LPGQSPKEKD FEFPHRKRLDLQGRVLKLRFE SQGDAQTV CQPK
20159	50527	A	20275	46	513	

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20160	50528	A	20276	3	1084	NQEWKRSPPITVAKATQGAYL NILKDTLRAQKEQKEGKEEVIH KGAKLHPNGYRMAQGSETLVA RGGPCRSVEPSAASPQELRGW WEAQALKRWGLMGGVWVME VDPSWLGAISAIVSSASRLKS VWHIPCPHFLLLRPQLKEAQR KKQLEERCERVEESIGNAVLTW NNEILPNWETMWCSRKVRDLW WQGIPPSVRGKVWSLAIGNELN ITHELFDICLARAHERWRSLS TGSEVENEGLCAVAVCAQQGHV GVMGFGSDEPSAVSPCEKGKSLA AWVLIFVDFRVGLQKSFQKRK ERESTKLQQLWSWCLMLTYFA AFEVFFREENLPKLFHFHKKNNL TPDIYLID/W*FRLLVGC
20161	50529	A	20277	60	556	EDSEMAPPAPGPASGGFGEVYE LFDVKNAFYIGSYQQCINEAQR VKLSSPERDVERDVFLYRAYL RRDSIVAELDREMSRSVDVTNT TFLMAASIYLHDQNPDAALRA LHQGDSLECTAMTVQILLKLDRL DLARKELKRMQDLDEDATLT QLATAWVSLATGG
20162	50530	A	20278	1	628	FFYKSVLAQKEVRCVLDE/ISPL GPPELKPVRMFADL/LPHESRR DSSVPELAEKMSRSVDVPTPPS LLMAASIYLHDQNPDAALRAL HQQGDSLECTAMTMQDAYYIFQ EMADKCSPTLLLLNGQAACHM AQGRWEAAEGLLQEALDKDSG YPETLVNLIVLSQHLGKPPEVT NRYLSQLKDAHRSHPFKEYQA KENDFDRLVLQYAPSA
20163	50531	A	20279	1	884	RKFGVVLDEIKPSSAPELQAVR MFADYLAHESRRDSIVAELDRE MSRSVDVTNTTFLMAASIYLH DQNPDAALRALHQQGDSLECTA MTVQILLKLDRLDLARKELKR MQDLDEDATLTQLATAWVSL \ATGGEKLQDAYYIFQEMADKC SPTLLLLNGQAACHMAQGRWE AAEGLLQEALDKPPHGCSCERK LVSPFMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFKEYQAKEN DFDRLVLQYAPSA
20164	50532	B	20280	512	903	
20165	50533	A	20281	18	413	

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20166	50534	A	20282	1	1195	MKHPNINSALQAPHFVPGRPH LVAGVAPPALSNHPQARATAA AGKPHPRCAEAAGIGLACTAPG SHWLKMGELPLDINIQEPRWD QSTFLGRAPHFFTVTDPRNLLL SGAQLEASRNIVQNYRAGVVTP GITEDQLWRAKYVYDSAFHPD TGEKVVLIGRMSAQVPMNMTI TGCMLTFYRQGSKDEGHCRRG RSECLCSLRKTPTVVFQWVN QSFNAIVNYSNRRW*HFPSLVR QLGTAYVSATITGAVATALGL KSLTKHLPPLVGRFVPFAAVAA ANCINIPLMRQRELQVGIPVAD EAGQRLGYSVTAAKQGIFQVVI SRICMAIPAMAIPPLIMDTLEKK DFLKRRPWLGAFLQVGLVGFC SIHISNLEPELRAQIHEQNPSVE VYYYNKGL
20167	50535	B	20283	24	51	
20168	50536	C	20284	1	1182	
20169	50537	B	20285	1	372	
20170	50538	A	20286	1	4610	ELAQNHSRPAPASAPGGGGGG DPNMATARTFGPEREAPEAKE ARVVGSELVDITYTVYIIQVTDG SHEWTVKHRYSDFDLHEKLV AERKIDKNLLPPKKIIGKNSRSL VEKREKDLEVYLQKLLAFAFG VTPRVLAHFLHFHF\YET*VIHA A\LAELFEKGEQLLGAGEVFAI GPLQLYAVTEQLQQGKPTCAS GDAKTDLGHIL\DFTCRLKYLK VSGTEGPFGTSNIEQLLPFDLS IFKSLHQVEISHCD
20171	50539	A	20287	1	4670	MAAQRAAGATGGGGRGASAP GGGGGGDPNMATARTFGPERE AEPAKEARVVGSELVDITYTVYI IQVTDGSHEWTVKHRYSDFDH LHEKLVAERKIDKNLLPPKKIIG KNSRSLVEKREKDLEVYLQKLL AFAFGVTPRVLAHFLHFHFYEI NGITAALAEELFEKGEQLLGAG EVFAIGPLQLYAVTEQLQQGKP TCASGDAKTDLGHILDFTCRLK YLVKVSFGTEGPFGTSNIEQLLP DLSIFKSLHQVEISH
20172	50540	A	20288	2	227	ERFRPPIARVIDVSNGKVHVAE/ SCLEETGGLGVLDIVLDAGLDPP DSHCLFLKGATLAFLNDEVWN LSNVQQGRYL
20173	50541	A	20289	3	487	

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20174	50542	A	20290	2	222	
20175	50543	A	20291	1	296	HLSPGKSV\LIMDGASA\FGTIAI QLAHHRGAKVISTACSLKQCLERFRPPIARVIDVSNKGVHVA ESCLEETGGLGVDIVLDAGGYI FQHSSYIFT
20176	50544	A	20292	353	512	
20177	50545	A	20293	2	396	VRLYSKDDEPAVKLQLLPHKH DIITLLGVGGHWVTTEENLQLD PPDSHCLFLKGATLAFLNDEVW NLSNVQQGKYLS*QSFQLRILK DVMEKLSTGVFRPQSDEHIPVF EAR\LSLEIVEKNQGR*NKLHF
20178	50546	B	20294	1	1182	
20179	50547	A	20295	1	1189	PTRPDQWEQGAGSLTKDWKV AVVKVQAVGAAQRQVTMKGL YFQQSSTDEEITFVFQEKEDLPV TEDNFVKLQVKACALSQINTKL LAEMKMKKDLFPVGREIA\GIV LDVGSKVSFFQP\DDDEVGILP\ LDS*KTPGL\CESLLRVHEPLL FINPEKVTW\TEAAGSISGMGV RAYYSFLHLS/YLHLLSWGKSV LIMGGS/ASAFGTIAIQLAHHRG AKVISTACSLKQCLERFRPPI ARVIDVSNKGVHVAESCLEETG GLGVDIVLDAGVRLYSKDDEP AVKLQLLPHKHDIITLLGVGGH WVTTEENLQLDPPDSHCLFLK GATLAFLNDEVWNLSNVQQGK YLCILKDVMEKLSTGVFRPQLD EPIPLYEAKVSMEA\QKNQGR
20180	50548	A	20296	3	115	FFKFSFFNGC*SIKRQSQGQALD RDIICFVDICTKDC

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20181	50549	A	20297	1	1401	MKEEELTRQIVLVQEAGKGVV RTKDGACAEVWQALEELEKGL CAGIVRVEGMAAAPPSCFVAF PPRAKDGLVVF GKNSARPRDE VQEVVYFSAADHEPESKVECT YISIDQVPRTYAIMISRPWLW GAEMGANEHG\VCIANEAINTR EPAAEIEALLGMDLVRL\GLER GETAKEALDVIVSLLEE HGGG NYFEDANSCHSFQSAYLIVDRD EAWVLETIGKYWAAEKVTEGV RCICSQSLSTTKMDAEHPELRS YAQSQGWWTGEGEFNFSEVFS PVEDHLDCGAGKDSLEKQEESI TVQTMNTLRDKASGVCIDSE FFLTASGVS VLPQNRSSPCIHY FTGTPDPSRSIFKPFIFVDDVKL VPKTQSPCFGDDDDPAKKEPRFQ EKPDRRHELYKAHEWARAIIES DQEQGRKLRSTMLELEKQGL* AMEEILTSSEPLDPAEVGDLFY
20182	50550	A	20298	1	356	QTPKIVADKDYSVTANSKIVV VTAGVRQQEGESRLNLVQRNV NVFKFIIPQIVKYSPDCIIVVSNP VDILTYVTWK/ARFRYLMAEKL GIHPSSCHGWILGAHGDSSVAV WSGVNLAG
20183	50551	A	20299	1	322	
20184	50552	A	20300	25	1086	
20185	50553	A	20301	1	864	
20186	50554	A	20302	13	190	

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20187	50555	A	20303	1	1350	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADFVFSARLLQRSP EPSLSWGGRALAEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEEATVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCQC NMMSLADELALVDVLEDKLG EMMDLQHGSFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSPTDCIIVVSNPRDI\LTGT WKL SGLPKHRVIGSGCNLDSAR FRYLMAEKLGIHPSSCHGWILG EHGDSSVAVWSGVNVAGVSLQ ELNPEMGTDNDSENWKEVHK MVVESAIYEVIQA*KGYTH\WA IGLSVA/EILNESMLKNLSR\IHP VSTMVKGMYGIENEVFLSLP\CI \LNAGGLTSVINP\KVKDDEVAQ LKKSADTLWDI\QKDLKDL
20188	50556	B	20304	1337	1706	
20189	50557	A	20305	178	344	
20190	50558	A	20306	2	297	TKMTVNNLHPRVTEEDIV/GQP MKCNLHMNGNVITSDQPILLRL SDSPSMKKESELPRRVNSASSS NPPAEVDPDTILKALFKSSGAS VTTQPTFEKIKL
20191	50559	B	20307	8	478	
20192	50560	C	20308	146	391	
20193	50561	A	20309	3	735	HRQKDARFRIKGVQDAREML NSRKQQTTPQKPRQVADARE KISLKRSSPAAFINPPIGTVTPAL KLTKTIQVPQQKAMAPLHPHPA GMRINVNNHQAKQNLY\DL EDDDGIASV\PTKQMKFAASGG FL\HHM\AGLSSSKLSMSKALPL TKVVQNDAYTAPALPSSIRTKA LTNMSRTL VNKEEPPKELPAAE PVLSPLEGTKMTVNNLHPRVTE EDIVELFCVCGALKRARLVHPG VAEVG

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20194	50562	A	20310	1	1763	MEIASFVGPNVNTVGNLRPAQS AAGDGDDEVQSVHSQRQDCQAT GSLNNGENNEKNAFTTYQQET KNTTTPQSVYFLGVNKMSSQH REGSRGTSPPLPVLCFELAVA RVGPRTPEVVRSLAAEGAGSR GLDCFRLARRIKMADISLDELIR KRGAAAKGRLNARPGVGGVR SRVGIQQGLLSQSTRATFQQR FDARQKIGLSDARLKLGVKDA REKLLQKDARFRIKGVQDAR RDV*TFRKQQTTPQKPRQVA DARERIQLGRGRSPAFLNPPI GTGTPALKLTTTIQRMHVDVPG WILTTECFQVPQKAMAPLHP HPAGMRJNVVNNHQAKQNLV DLDEDDDDGASVPTKQMKFAA SGGFLHHMAGLSSSKLSMS\KA LPLTKVVQNDAYTAPALPSSIR TKALTNMSRTLNVKEEPPKELP AAEPVLSPLEGNKMTVNNLHP RVTEEDIV\EVFCVCGGL/RRRA RLVPSGG*PKVVFCEKRDDAIT AYKKYNNRCLDGQPMKCNLH MNGNVITSDQPILLRLSDSP\SM KKESELPRRVNSASSSNPPAEV DPDTILKALFKSSGASVTTQPT
20195	50563	A	20311	1	915	
20196	50564	A	20312	3	3238	LDTDDDLNSDDYEYEDAKLVI FPDHYEIALPNIEELPALVSECA RLLARCAWLCVSLKLSTLLTDD TGLLTVRNKEEVLARSKVIA CDAVLSSKSPYRKQDPDTWEN ELPVSKYANNLTQLDNGVRIPP SGWKCARCDLRENLWNLTDG SVLCCKWFFDSSGGNGHALEH YRDMG\YPLAVKLGITPDGAD VYSFQEEEPVLDPHLAKHLAH FGID\MLHMHGTENGLQ\D\NDI KLRVSEWEVIQES

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20197	50565	A	20313	2	2716	AEFRGIPRRRRRQTTPRSGSGSAR SAPVRAEAMQRRGALFGMPGG SGGRKMAAGDIGELLVPHMPTI RVPRSGDRVYKNECAFSYDSPN SEGGLYVCMNTFLAFGREHVE RHFRKTGQSVYMHKLRHAREK VRGASGGALPKRRNSKIFLDLD TDDDLNSDDYEYED*AFLVIFP DHYEIALPNIEELPALVTIACDA VLSSKSPYRKQDPHTWENELPV SK\YANNLTQLDNGVRIPPSGW KSARCDLRENLWLN
20198	50566	A	20314	2	322	
20199	50567	A	20315	1285	3331	GAGAPRDWRLRRRGGAALCLK VLFDVRSFPREAAALTPHRLQ FPRSSSPGDQMMAAARLLPVP AGPQPLSFQAKLTFEDVAVLLS QDEWDRLCPAQRGLYRNVM ETYGNVVSGLPGCKPDIIHLE LRGISLGPVPEWG*EEPGPVE*L L/ENVETKGESQNTDLSPKPLIS EQTIVILGKTPLGRIDQENNETK* SFCLSPNSVDHREVQVLSQSM LTPHQA VPSGERPYMCVECGK CFGRSSHLLQHQRHTGEKPYV CSVCGKAFSQSSVLSKHRIHT GEKPYERNRACISLYSEPHLAH LSLIHTGEKPH*CLECPKAFTQL SHLIQHQRHTGERPYVCPLCG KAFNHSTVLRSHQRVHTGEKP HRCNECGKTFSVKRTLLQHQR VHTREKPYTCSECGKAFNDRSV LIQHNVHTREKPYECSECGKT FSHRSTLMNHERIHTTEKPYAC YECGKAFVQHSLLIHHQHVHT GEKPYVCGECGHAFSARRSLIQ HERIHTGEKPFQCTECGKAFTSL KATLIVHLRTHTEKPYECNSC GKAFTSRTQLLIHHQHVHTGEK YECGECGGAFNQHGHLIHHQ SAQKSCDPWLTQE/CPFSQKLH VEPTSSLQPKRSLC*LVRKLFFG DSVSQNNRKKHLACCSCGKTS ETTCFIFLNHLEV/HVGE*SYNC
20200	50568	A	20316	1	319	
20201	50569	A	20317	1	2433	
20202	50570	A	20318	2	293	GELAGTQCTRGACPHSP*PLHR Q/HTTVTHITAFDPDSTGQQVW QDLLQDGLDSTGDDGSDWE MVGREVPVLPVGPVGGGLVISRP CFHVRDPYPWG

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20203	50571	A	20319	1	537	GGGTITRGWRGQFCRWQLNPG MYQHRTVIADQMRTLRSREV** HAQGHKFTVCLRREGQTVYQQ VLSLERPSVLRSWNWGLCGYF AFYHALYPRAWTVYQLPGQNV TLTCRQITPILPHDYQVRPPHLY LPLPSLPQDLPLETAWPARRG SHACNPNTLGGKAGGSRDQEIE TILANT
20204	50572	C	20320	3	170	
20205	50573	A	20321	278	1018	RVGVSRRPEVRNWATRDCRAQ ERMTHCLLHGMGRAGAASLTP KPMSLISAYCGGLWLA AVAVM VQMAALCEGTGQSRISFLLSSA GAKKPMRDCCGMVSSGSLSSL KAAERTPGALFFSSSTPGRYYN YDSSSRPQSRVMSDQVCWTV GVPEGLWP*EKGDTEVREEEEQ PERKMGFPWRWEVFPTQHVV ALQTIFELNVQAFAGGAMGAV NGMQPHGVDPKSSVQSDEVW VGVVYGLAATMIQE
20206	50574	A	20322	3	627	

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20207	50575	A	20323	270	2945	NTSSFKLSPTTGPPGRYLTTTGA RIWNRRLARYLVSEGSGLGAIEV MGTQDPGNMGTGVPASEQISC AKEDPQVYCPEETGGTKDVQV TDCKSPEDSRPPKETDCCNPED SGQLMVS YE GKAMGYQVPPFG WRICLAHEFTEKRKPFQANNVS LSYMIKHIGMGLRYLQWRDRK THVEKKTPFIDMNKSVPIQSYF VPLGGLRGGTSTRGWRGQFCR WQLNPGMYQHRTVIADQFTVC LR\REGQTVYQQVLSL\ERPSVL RSWNWGLCGYFAFYHALYPRA WTVYQLPGQNVTLTCRQITPIL PHDYQDSSLPVGVFVWDVENE GDEALDVSIMFSMRN/GTGWW RRCPRGFVGMSPSVWSVGVQT VRGLLLHSSNPSKPLHDGLWLA RSSRAATTVNPH/CTAFDPG\RT GAA\WQDLLQDGQLDSPTGQ RTPTQKGVGIAGAVCVSSKLRP RGQCRLEFSLAWDMPRIMFGA KGQVHYRRYTRVFGAG\GDAP PALSHYALCRYAEWEERISAW QSPVLD DRSLPAWYKSALFNE LYFLADGGTVWLEVLED SLPEE RAETSVTSAPTLRDYRRFG*LE GQEY\RMYN TYDVH FYASFALI MLWPKLELSLQYDMALATLRE DLTRRRYLM SGVMGTCEKEGT FIPHDIGGPRWMEPWASAFNAY LIHDTADW\KDLNLKFVACRFI
20208	50576	C	20324	123	359	
20209	50577	A	20325	1	259	KPVGEKDTWSGMRTTGQLRPA HGVRLKANKDSL YKPILRQKK HFNSLHIPKALQKALPFKNKPK TQAKAGKVPKDRRR*TVSNITV
20210	50578	A	20326	297	585	
20211	50579	A	20327	182	374	PDFRIAAT*VVLDL DKS I KIVKK LKLTGFPPYKIFKN TSFIKACISIY SHIYKSPYCLRKGMKYL

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20212	50580	A	20328	1	1267	MAANRKDFIHRRCGPELSQSEA VPQGLCRAERSSALAMLSGSVP RRTQLRPCKGTQRRRCRRGGEA DSGGEAVGGGAAERRSAAARR RGGRRRGGGEAVGGGAAERRS AAARRRRGGRRRRGGGEAGGG GAAEARRAAAARRRAAAARRA AAARRRAAAARRRAAAARRIAES GGEAHSRGEAHSGGEAHSGGA GAERRRPRLHSPALKTHPGQSS EGHVEYKLNHVEFEDQDDEAR VQYEGFRPGMYVRVEIENVPCE FVQNFDPILYPIILGGLGNSEGNV GHVQMRLKKHLWYKKILKSQ DPIIFSVGWRRFQTILLYIEDH NGRQRLKLYTPQHHCGAAFW DIVFMRTWYLVSIAPFYNPVTS LLKPVGEKDTWSGMWTTGQL RLAHGVRLKTTKDSLYKNIHMI VETDTYSDHEEINTS
20213	50581	A	20329	66	1414	KEELYGDFEDLETGDVHKGKS GPDTQNEDEVEK\KEEIDPDEEES AKKKHLDDKKRKLKEMFDVEY DEGESTYFDDLKGEMQKQAQV N/RHTRFPPRAPRHVQLNHAEF EDQDDEARVQYEGFRPGMYVC VEIENVPCEFV*NLDPRYPILG GLGNSEGNVGYVQVGPFAAYL VPEALWISPPSIILPSHPPQMRLK KHRWYKKILKSRDPIIFSVGWR RFQTIPLCYIEDHNGRQRLKLY TPQHVHRGAAFRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSR IAATGVVLDLDSIKVVKKLKL TGFPYKIFKNTSFIKGMFNSALE VAKFEDAVIRTVSGIRGQIKRA L*APEGAFAQDSLEDKLRMSDIV FMRTWYPVSIPAFYNPVTSLLK PVGEKDTWSGMWTTGQLRLA HGVRLKTNKDSLYKVLVVCVL VEMKPVLYRQ

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20214	50582	A	20330	4210	5099	AKDQKKHRKKNSGPKAACKK KRLLQDLQLGD\EEDAWKRNP KAFQAFQSAVWMARSFHRTQD LKTKKHHPVVD\RTPLEPPPI\V VVVMGPPKVGKSTLI*CL\RN TRQKLTE\RGPTIVSGKKLRL\ TIIDCGCDINMMIDLGEVADLV LMLIDASFGFEMETFEFLNICQV HGFPKIMGVLTHLDSFKHNKQL KKTKKRLKHRFWTEVYPGAKL FYLSGMVHGEYQNQEIHNLGH FITVMKFRPLTW
20215	50583	A	20331	56	467	
20216	50584	A	20332	282	452	
20217	50585	A	20333	1	1356	
20218	50586	A	20334	80	1096	GLGVRVLRCPGVYRGPCTRAA YLGWLWTTLSPYCCLRSADMN PIVLVHGGGAGPISKDRKERVH HGMVRATTVGYGILREGGS DAVQGA VVALEDDPEFNAGCG SVLNTNGEVEMDASIMDGKDL SAGAVSAVQCIANPIKLARLVM ENFPHCFLTDQGA AHFAGAMG VPEIPGKKLVTERNKKRLEKEK HEKGAHKTDQCQKNLGTVGAV ALDCKGNVAYATSTGGIVNKM VGRVGDSPSLGAGGYADHDF* AVSTTGHGEASFLKVNLARLTLF HIEQGKTLEEAADPIG/CG*MKS RVKGLGGLIVVSKTGDWVAK WTSTSMPWAAAKDGKLPLRN
20219	50587	A	20335	1	1416	
20220	50588	A	20336	3	277	

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20221	50589	A	20337	235	2811	VKMEAPLRPAADILRRNPQQD YELVQRVGSGTYGDVYKARNV HTGELAAVKIIKLEPGDDFSLIQ QEIFMVKECKHCNIVAYFGSYL SREKLWICMEYCGGSLQDIYH VTGPLSELQIAYVCRETLQGLA YLHTKGKMHARDIKGANILLTD HGDVKLADFGVAAKITATIAKR KSFIGHTPYWMAPEVAAVEKNG GYNQLCDIWAVGITAIELGELQ PPMFDLHPMRALFLMSKSNFQP PKLKDKTKWSSTFHNFKIALT KNPKKRPTCLKDF*HHTFVAQ PGLSRALAVELLDKVNPNPDNH AHYTEADDDDFEPHAIRHTIRS TNRNARAERTASEINFDKLQFE PPLRKETEARDMGLSSDPNFM LQWNPV*WWQITGKSTSKRA IPPLPPKPRISSYPEDNFPDEEK ASTIKHCPDSESRAQILRRQSS PSCGPVAETSSIGNGDGISKLMS ENTEGSAQAPQLPRKNDKRDFP KPAINGLPPTPKVLMGACFSKV FDGCPLKINCATSWIHPDTKDQ YIIFGTEDGIYTLNLNELHEATM EQLFPRKCTWLYVINNTLMSLS EGKTFQLYSHNLIALFEHAKKP GLGCPHFQTHRFPDRILPRKFAL TTKIPDTKGCHK\CCIVRNPTYG HKYLCGALQSGIVLLQWYEPM QKFMLIKHFDPLPSPLNVFEM LVIPQEYPMVCVAISKGTESN
20222	50590	C	20338	365	389	
20223	50591	A	20339	1	350	FDVTELCGQWLSRGGEIEGFRL SAHCSCDSRDNTLQVDINGFTT GRRGDLATIHGMNRPFLLMA TPLERAQHLQSS/RAPCCVPQAL EPLPIVYYVGRKPKVEQLSNMI VRSCCKCS
20224	50592	A	20340	1	708	
20225	50593	B	20341	229	1249	
20226	50594	B	20342	49	375	
20227	50595	A	20343	42	305	GARAHAPVLVQEEDLHGPHPL RPERL/PSVPSGRSSPPASR/PVG PGG/DQLRPSPDQQQVSGME WC/PWSGRSPGLSPTVGPRGGC HPTST
20228	50596	B	20344	8	1990	
20229	50597	A	20345	1	1512	

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20230	50598	A	20346	1	1663	SGRDRRGRAWKRNRPPTRG RSPDPQGGSARPLPSLGARISAA DRLSGLAARLIGNSRPVAGANA GVGPDLSHAGLVPTCARRLR KNGLGRRRRRPPSPRPSLESS SRLTTLGTSQPLKFNFPCDLRI FQTFNCWGI\PVL*AKHR\ADR MRRFGRPF*TQESFDLALLEEV WSEHDFQYLRQKLSPTYPAAH HFRSGIIGSGLCVFSKHPIQELT QHIYTLNGYPYMIHHGDWFSG KAVGLLVHLNMGELNAYVTH LHAEYNRQKDIYLTHLVG\QA WELAQFIHHTSKKADVLLCG DLNMHPEDLGCCLLKEWTGLH DAYLETRDFKGSEEGNTMVPK NCYVSQQELKPFPGVRIDYVL YKAVSGFYISCKSFETTTGFDPH SGTPLSDHEALMATLFVRHSPP QQNPSSTHGP\AERSPL/MCVCL KEALDGSGLGMA\QARWWA\ TFA\SYVIGLGL\LLALLCVLA AGGGAGEAAILLWTPSVGLVL WAGAFYLFHVQEVNGLYRAQ AELQHVLRAREAQDLGPEPQ LYALL\LGQQEGDRTKEQ
20231	50599	A	20347	175	544	RLRCQKGIPPSLRGRAWQYLSG GKVKLQQNPGKFDQLDMSPG DPTWLDVIERDLHRQFP\FHEM FVS/RGGH/GQQDLFRVLDAYT LYRPEGSYCKTQAPIAAVLLMH MPAEQAFWCLVQICEKYL
20232	50600	A	20348	1	434	CAAGIRHELRRRARLGWRTAT ERMGRACPRPGKACREPGRA* ARALTPQPPTNSALSGLTRRPT ASPS\PHRQVRLDRGLAGRQGR AGGSTPGGAEEGVQVAGHAQ AMVVAAARDACPPQHVPKDS APKDSAPQDLAPQVSAH
20233	50601	A	20349	3	510	

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20234	50602	A	20350	1	1669	MAKSNGENGPRAPAAGESLSG TRESLAQGPDAATTDELSSLGS DSEANGFAERRIDKFGFIVGSQ GAEGASILGQTVSPHGRVGE PPIRSYTASSTGTGNRLEEVPLE VLRQRESKWLDMLNNWDKW MAKKHKKIRLRCQKGIPPSLRG RAWQYLSGGKVKLQQNPGKF DELDMSPGDPKWLDVIERDLH RQFPFHEMFVSRGGHGGQDLF RVLKAYTLRPEEGYCQAQAPI AAVLLMHMPAEQAFWCLVQI
20235	50603	A	20351	1	243	
20236	50604	A	20352	70	382	
20237	50605	A	20353	2	322	
20238	50606	A	20354	86	215	
20239	50607	B	20355	1	735	
20240	50608	A	20356	92	1104	MSSPQAPEDGQCGDRGA\PPG DLRSVLVTTVLNLEPLDEDLFR GRHYWVPAKRLFGGQIVGQA M\VAATSV\SEDVHV\HS\LHC YF/VFRAGDP/KSLPVLYQVERT RTGVEA\FRLRSVKGP*NMGKPI F\ICQ\ASFQQA\QPSM\MQHQFS MP/TLLPTTEELV*IVRTLFDQY LRDPNLQKRYPLALNR\AAQE VPIEIKPVNPSPLRPAEEWEPK QMFW\VRARGY\IGKSTPWKM\ HC\CV\AA\YIS\DYAFLGTALAA LTQWPSTRCHFHPPLD\HNPM W\FHAPFRAD\HWMLEYECESPW AGG\SRGL\VHGRLWRQDGVLA VTCAQEGVIRVKPQVSESKL
20241	50609	A	20357	3	1106	LRRQLQPLLPLKSPPRSGAHL GSLFRSPQPSYPVRPPGSAGTPP PACLPPAQPCQGSAMNLFRL GDLSHLLAIILLLLKIWKSRSCA GISGKSQVLFVAVFTARYL\DLF TNYISLYNTCMNV\VIACSF TTVWLIY\TKFK\ATYDGN\H\DTFR SGSSRVV\VPQAILGVSWSNHD FTPLAELW\TFSIYLGVSGLPQ LFHG*GKTGRGRETHSPATYLF CAKAFNPHALSLSNWIWR\YHF \EGFFD\LIAIVAGPGPRQSSYCD FFIYLYYSPKFLKGERKFEFCRH RPRFLSISSPRAAAGRAGGKAG RKMKSFSHPRGDFFKNPTSLCS PIPPSCPGLKGNSARIPGLWGAQ RLGAVCSFLAF

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20242	50610	A	20358	356	1356	TPTTSGRTRKMWPRPGT*PP/A NCSANINLTHQPWFQVLEPQFR QFLFYRHCRYFPMLLNHPEKCR GDVYLLVVVKSVITQHDRREAI RQTWARAAVRGWGPSAVRTL LLGTASKQEERTHYQQLLAYE DALYGDILQWGFLDTFNLT EIHFLKWLDIYCPHVPFIFKGDD DVFVNPTNLLEFLADRQPQENL FVGDLQHARPIRRKDNKYYP GALYGKASYPPYAGGGGFLMA GSLARRLHHACDTLELYPIDDV FLGMCLEVLGVQPTAHEGFKTF GISRNRNSRMNKEPCFFRAMLV VHKLLPELLAMWGLVHSNLT CSRKLQVL
20243	50611	A	20359	221	1579	CCVDEGLEPTCFERTEDIGGVW RFKVSEIFLGLEQVVLLFQGESQ LMSCFSDFPMPEDFPNHLHNSK LLEYFRIFAKKFDLLKYIQFQVL YFWGNGFLCISSAHI*IENTQSN GKEQSAVFDAVMVCSGHHILP HIPLKSFPGETRWDSQLFGVGF QVLYM*FEGKRILVIGMGNSGS DIAVELSKNAAQV*CSLLTMYL EGRKWGCHTGDWDSVFHTRFR SMLRNVLPRTAVKWMIEQQM NRWFNHENYGLEPQNK*SYFA FLMVYSLVSKVV*RCLKVKST VKELTETSAIFEDGTVEENIDVII FATGYSFSFPFLEDLSVKVENN MVSLYKYIFPAHLDKSTLACIG LIQPLGSIFPTAELQARWVTRVF KGLCSLPSERTMMMDIIKRNEK RIDLFGESQSQTLOTNYVDYLD ELALEIGAKPDFCSLLFKDPKLA VRLYFGP\CNSY
20244	50612	A	20360	3	200	
20245	50613	A	20361	292	570	
20246	50614	A	20362	2	511	RLRSGPLRLPGADSGSGPKAVC SPPFIVAPTGRGYCGDHESFGA MEEPGVTPQPYLGLLLEELRRV SPGAMSVTWP/EGSREPPGEGSS RPALGSKPPWSEVPKPVLVCCP APARFEAVVRLVGRLSGFCVM EEDLGLWEGREKKLALMLSLI EEKSKLLEKFSLVQKE

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20247	50615	A	20363	2	3262	FLSDLEENFENNIFSFQVCDVVL NHAPDFRRVYLPYVTNQTYQE RTFQSLMNSNSNFREVLEKLES DPVCQRLSLKSFLILPFQRITRL KLLLQNILKRTQPGSSEAEAT KAHHALEQLIRDCNNNVQSMR RTEELIYLSQKIEFECKIFPLISQS RWLVKSGELTALEFSASPLRR KLNTRPVHLHLFNDCLLSRPR ESVTGVAGQGTRGEGDEERG SEREREGSEKLRWISALAMPRE ELDLLECYTAE
20248	50616	A	20364	2	2339	TGRGYCGDHESSFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSKLL EKFSLVQKEYEGYEVESLKD SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKSKHS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQSQKQLL QEAENVKEQVSELNKQKVTFE DSKVHAEQVLNDKESHIKTLTE RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQQKLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLSKV DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPPWDQDRMMFPPPG QSYPDALPPQRQDRFCSNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFPAAKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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20249	50617	A	20365	160	2810	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESFGAMEEPGATP QPYLGILLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSLGIEEKSLLLE KFSLVQKEYEGYEVESLKDAS FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSXHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQLESQKQLLQ EAEVWKEQVSELNKKQKVTED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFEL\LEEDPYALDV PNTAFGREHSPYGPSPLGWSS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALS DTGFLS PPWDQDRRMMFPPPGQSY PDS ALPPQRQDRFCSNSGRLSGPAE
20250	50618	A	20366	131	461	

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20251	50619	A	20367	1	1761	MARGYGATVSLVLLGLGLALA VIVLAVVLSRHQAPCGPQAFAH AAVAADSKVCS DIGRAILQQQ GSPVDASIAALVCTSVVNPQSM GLGGGVIFTIYNVTTGKVEVIN ARETVPASHAPSLLDQCAQALP LGTGAQWIGVPGELRGYAEAH RRHGRLPWAQLFQPTIALLRGG HVEAPVLSRFLHNSILRPSLQAS TLRQLFFNGTEPLRPQDPLPWP ALATTLETVATEGVEVFYTGRL GQMLVEDIAKEGSQTLQDLA KFQPEVVDALEVPLG DYTL YSP PPPAGGAILSFILNVLRGFNFST ESMARPEGRVNVYHHLVETLK FARGQRWRLGDPRSHPKLQNA SRDLLGETLAQLIRQQIDGRGD HQLSHYSLAEAWGHGTGTSHV SVLGEDGSAVAATST\NTPFGA MVY\SPRTGIILNNELLDLCERC PRGSGTTPSTVSGDRVGGAPGR CWPPVPGEPSPSSMEPSILINKA QGSNLVIGCAGGELIISAVAQAI MSKLWLGFDLRAAIAAPILHVN NKGCV EYEPNFSQEVQRGLQD RGQNQTQRPFFLN VVQAVSQE GACVYAVSDLRKSGEAAGY